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CHRYSOMELIDAE (COLEOPTERA) OF THAILAND, CAMBODIA, LAOS AND VIETNAM. IV. GALERUCINAE*

SHINSAKU KIMOTO

Biological Laboratory, Department of General Education, School of Medicine,
Kurume University, Kurume 830, Japan

Abstract

This fourth paper of a series treats the subfamily Galerucinae covering 382 species in 97 genera. Keys are presented to genera and species. Relevant synonymies are presented for genera and species as well as general and local distribution of species. Six genera and 103 species are described as new and a number of species are newly recorded from the area or from individual countries.

This paper is the fourth in series attempting to cover the chrysomelid beetles from the Thai-Indo-China area. This series represents a sequel to "Chrysomelidae (Coleoptera) of China and Korea" (Gressitt & Kimoto, 1961 & 1963), and should be used in conjunction with that monograph. This installment treats the subfamily Galerucinae covering 97 genera and 382 species, including 6 new genera and 103 new species, and there are many new synonymies and new combinations.

Keys are presented to genera and species, including a few occurring just outside the area of treatment. Pertinent synonymies are presented, and that references under genera included in Gressitt & Kimoto (1963) are not repeated other than original references and some monographs covering the area and its nearby areas. All known geographical records within the area, as well as general distribution for all the species treated, are also presented. A number of species are newly recorded from this general region, as well as a number of new records to individual countries.

The sources of material are essentially the same as for the preceding installment. The main sources are Bishop Museum collection including the large J. A. Rondon collection from Laos (Gressitt et al., 1970) ; collections from various Japan-United States scientific cooperation projects funded by the U. S. National Science Foundation, the Japan Society for the Promotion of Sciences, and the Ministry of Education of Japan ; results of the rice stem borer studies under the direction of the late Prof. K. Yasumatsu and Prof. Y. Hirashima ; collections from Kasetsart University and the Thai Department of Agriculture, Bangkok ; collections of Zoologische Staatssammlung, München ; Naturhistorisches Museum, Basel, and Entomological Laboratory, Ehime University ; as well as private collection made by Dr. Kintaro Baba and others. For further details refer to the introduction in

* Part I, Kimoto, S. & J. L. Gressitt, 1979, Pac. Ins. 20 (2-3) : 191-256 ; Part II, Kimoto, S. & J. L. Gressitt, 1981, *ibid.*, 23 (3-4) : 289-391 ; Part III, Kimoto, S. & J. L. Gressitt, 1982, Esakia, Kyushu Univ., (18) : 1-141.

Kimoto & Gressitt (1979, 1981, 1982).

For general information on the principal Laos survey and for locations of collecting localities, see introductory section, map and list of localities of Gressitt et al. (1970).

The following abbreviations are used herein for depository museums.

BANGKHEN	Kasetsart University and Agriculture Department, Bangkok, Thailand.
BASEL	Naturhistorisches Museum, Basel.
BISHOP	Bishop Museum, Honolulu.
BM	British Museum (Natural History), London.
BRUXELLES	Institute royale des Sciences Naturelles, Bruxelles.
CAS	California Academy of Sciences, San Francisco.
CHUJO	Dr. Michio Chûjô collection, Fukuoka.
EHIME	Ehime University, Matsuyama.
FREY	G. Frey Museum, Tützing bei München.
GENOVA	Museo Civico di Storia Naturale, Genova.
HAMBURG	Universität Hamburg, Zoologisches Institut und Zoologisches Museum, Hamburg.
KIMOTO	S. Kimoto collection, Kurume.
KU	Entomological Laboratory, Kyushu University, Fukuoka.
MCZ	Museum of Comparative Zoology, Harvard University, Cambridge, Massachusetts.
MÜNCHEN	Zoologische Staatssammlung, München.
OMNH	Osaka Museum of Natural History, Osaka.
PARIS	Museum National d'Histoire Naturelle, Paris.
RU	Entomological Laboratory, University of the Ryukyus, Okinawa.
STOCKHOLM	Naturhistoriska Riksmuseet, Stockholm.
TARI	Taiwan Agriculture Research Institute and Taiwan University, Taipei.
ZMB	Zoologisches Museum der Humboldt-Universität zu Berlin.

The abbreviation "Umgeb." in geographical records refers to the German "Umgebung", meaning "Environs of".

In the course of the study I am grateful to the authorities and staff members at Bishop Museum, Honolulu ; British Museum (Natural History), London ; Museum National d'Histoire Naturelle, Paris ; Universität Hamburg, Zoologisches Institut und Zoologisches Museum, Hamburg ; Institut royal des Sciences Naturelles de Belgique, Bruxelles ; Museo Civico di Storia Naturale, Genova ; Zoologische Staatssammlung, München ; Naturhistorisches Museum, Basel ; Naturhistoriska Riksmuseet, Stockholm ; Kasetsart University and Agriculture Department, Bangkok ; Kyushu University, Fukuoka ; and Ehime University, Matsuyama.

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KEY TO GENERA OF GALERUCINAE

- 1 Antennal insertions generally close, at level of anterior margins of eyes or further anterior ; vertex and pronotum generally deeply punctate ; in male last abdominal segment with a triangular or rounded depression with posterior border often emarginate, but never trilobed 3
- Antennal insertions generally separated, situated near, but behind, anterior margins of eyes ; when separated or placed further forward, vertex and pronotum not heavily punctate ; last abdominal segment of male trilobed, with median lobe always distinct 2
- 2(1) Mesosternum free, horizontal or inclined, not covered by a process of metasternum 19
- Mesosternum with largely covered by an anterior process of metasternum 94
- 3(1) Anterior coxal cavity closed behind 4
- Anterior coxal cavity open or partly open behind 7
- 4(3) Lateral border of pronotum rounded, widest near middle ; elytron hardly wider than prothorax basally 5
- Lateral border of pronotum squarish ; elytron distinctly wider than prothorax basally, antenna rather slender *Atysa*
- 5(4) Metasternum not extended anteriorly ; antenna robust 6
- Metasternum extended anteriorly into high triangular process, dorsal surfaces glabrous ; antenna slenderer *Lupeocida*
- 6(4) Lateral border of elytron with flat reflexed area *Issikia*
- Lateral border of elytron without flat reflexed area *Menippus*
- 7(3) Primary setigerous pore on anterior part of lateral margin of pronotum 8
- Primary setigerous pore on anterior corner of pronotum 10
- 8(7) Side of pronotum unmargined 9
- Side of pronotum distinctly margined ; claws bifid *Falsoplatyxantha*

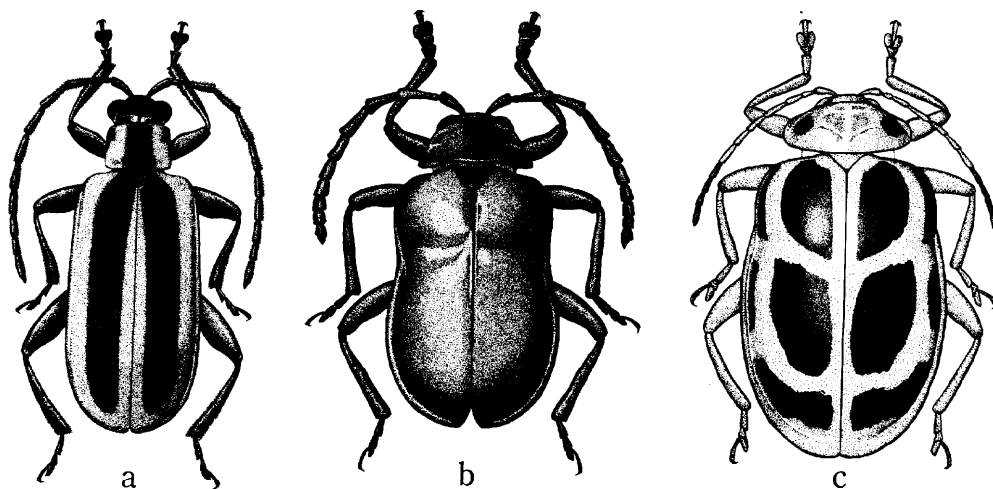


Fig. 1. a, *Atysa marginata* (Hope) ; b, *Periclitena cyanea* (Clark) ; c, *Oides duporti* Laboissière.

- 9(8) Claws bifid in male, appendiculate in female ; elytron without costa along lateral margin *Apophyllia*
 Claws bifid ; elytron with a costa running closely along elytral margin until at the apex *Poneridia*
- 10(7) Lateral margin of pronotum entire 11
 Lateral margin of pronotum disappearing towards anterior 1/3 ; dorsal surfaces glabrous, densely and grossly punctured ; anterior border of pronotum unmarginated ***Pseudadimonia***
- 11(10) Pronotum and elytron thickly or sparsely covered by hairs 12
 Pronotum glabrous 15
- 12(11) Elytral epipleuron distinct at least basal half 13
 Elytral epipleuron distinct only on basal 1/4 or so 14
- 13(12) Disc of pronotum entirely covered by hairs, but in some cases anterior and lateral margins glabrous *Pyrrhalta*
 Disc of pronotum with a large glabrous space at middle *Galerucella*
- 14(12) Antenna slender, in preapical segments three times as long as wide or much wider *Sastracella*
 Antenna robust, in preapical segments twice as wide as long or more wider *Clitena*
- 15(11) Mesosternum free, horizontal or inclined, not covered by a process of metasternum 16
 Mesosternum largely covered by an anterior process of metasternum *Doryxena*
- 16(15) Elytral epipleuron distinct only on basal 1/4 ; elytron thickly or sparsely covered by hairs 17
 Elytral epipleuron distinct at least to apical 1/4 ; elytron glabrous *Clitenella*
- 17(16) Antenna filiform 18
 Antenna robust, especially apical four segments shorter than those of middle *Periclitena*
- 18(17) First segment of posterior tarsus subequal to following segments combined ; third segment of antenna not longer than fourth *Sastroides*
 First segment of posterior tarsus longer than the following segments combined ; third segment of antenna at least 1 1/4 times longer than fourth (Baly, 1865 ; type : *Sastra placida* Baly ; Mysol) *Sastra**
- 19(2) Lateral border distinctly marginate 20
 Lateral, anterior and posterior borders not marginate ; tarsal claws appendiculate *Meristoides*
- 20(19) Tarsal claws bifid 21
 Tarsal claws not bifid 27
- 21(20) Anterior coxal cavities closed behind 22
 Anterior coxal cavities opened behind 23
- 22(21) Elytron glabrous ; anterior and posterior borders of pronotum not margined or hairy (Strand, 1935 ; = *Merista* Chapuis, 1875 ; type: *Galleruca sexmaculata* Kollar & Redtenbacher ; Caschmir) *Meristata**
 Elytron pubescent ; pronotum with some fine hairs on anterior and posterior margins ; anterior and posterior borders of pronotum distinctly margined ***Anadimonia***
- 23(21) Pronotum with a transverse depression, sometimes interrupted at middle 24
 Pronotum without a transverse depression ; disc subevenly convex ; body broadly

	ovate ; elytral epipleuron wide, interior, recurved basally	<i>Oides</i>
24(23)	Tibiae distinctly spined apically	25
	Tibiae not distinctly spined apically ; elytral epipleuron narrow but distinct almost to apex	<i>Hoplasoma</i>
25(24)	Elytral epipleuron strongly narrowed behind basal 1/3	26
	Elytral epipleuron gradually narrowed posteriorly	<i>Agetocera</i>
26(25)	Elytral epipleuron continued to apex	<i>Pseudocophora</i>
	Elytral epipleuron distinctly abbreviated behind middle	<i>Aulacophora</i>
27(20)	Anterior coxal cavity opened posteriorly	28
	Anterior coxal cavity closed posteriorly	58
28(27)	Posterior tibia unspined	29
	Middle and posterior tibiae spined	43
29(28)	Anterior and posterior borders of pronotum unmargined	30
	Posterior border of pronotum margined	34
30(29)	Pronotum with a distinct depression on each side or with a transverse depression	31
	Pronotum convex, without any distinct depression	<i>Kanarella</i>
31(30)	Posterior border of pronotum rectangularly emarginate near angle, which is displaced anteriorly	32
	Posterior border of pronotum without rectangular emargination near angle, sometimes obliquely truncate	33
32(31)	Elytron with two carinae behind humerus	<i>Japonitata</i>
	Elytron without carinae behind humerus	<i>Euliroetis</i>
33(31)	Pronotum not broader than long, with a longitudinal depression on each side ; fourth to eighth antennal segments each less than three times as long as broad ; body slender, subparallel-sided	<i>Cerophysella</i>
	Pronotum at least 1 1/2 times as broad as long, with a transverse groove behind middle which reaches side ; antennal segments beyond third at least three times as long as broad ; body ovoid, broadened behind	<i>Paridea</i>
34(29)	Anterior border of pronotum unmargined	35
	Anterior border of pronotum margined ; elytron more or less glabrous	39
35(34)	Dorsum glabrous	36
	Dorsum with erect hairs ; body slender, parallel-sided	<i>Trichomimastra</i>
36(35)	Pronotal disc with distinct depression	37
	Pronotal disc convex, without depression ; body large, elongate oval ; epipleuron narrow	<i>Siemssenius</i>
37(36)	Elytron not carinate	38
	Elytron longitudinally carinate behind humerus, generally with a groove separating two carinae posteriorly ; gena short	<i>Haplosomoides</i>
38(37)	Gena not shorter than smallest diameter of eye ; groove behind frontal tubercle complete ; frons of male with a large deep cavity and with a prominent process near antennal insertions	<i>Fleutiauxia</i>
	Gena much shorter than depth of eye ; groove behind frontal tubercle disappearing towards side ; frons similar in male and female	<i>Taumacera</i>
39(34)	Mesosternum narrow and not connected with metasternum	40
	Mesosternum wider and distinctly connected with metasternum	<i>Cneorandea</i>
40(39)	Elytral epipleuron wide basally and narrow apically	41

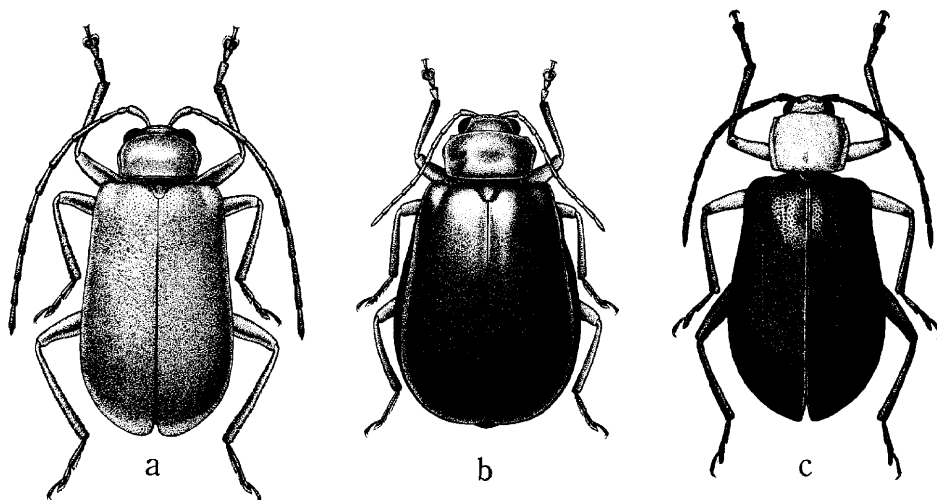


Fig. 2. a, *Trichomimastra hirsuta* (Jacoby); b, *Pseudocophora flaveola* Baly; c, *Cneorane femoralis* Jacoby.

- | | | |
|--------|---|----------------------|
| | Elytral epipleuron narrow basally | <i>Liroetis</i> |
| 41(40) | Pronotum convex, lateral margin rounded, without any distinct transverse depression dorsally | 42 |
| | Pronotum subquadrate, with distinct transverse depression dorsally | <i>Mimastra</i> |
| 42(41) | Labrum with numerous irregularly arranged setigerous pores; pronotum less transverse, less than twice as wide as long | <i>Cneorane</i> |
| | Labrum with a row of six to eight setigerous pores; pronotum transverse, more than twice as wide as long | <i>Cneorella</i> |
| 43(28) | Basal border of pronotum entirely marginate | 44 |
| | Basal border of pronotum not marginate except near side | <i>Bangprella</i> |
| 44(43) | First segment of posterior tarsus distinctly shorter than remainder combined | 45 |
| | First segment of posterior tarsus as long as, or longer than, remainder combined | 52 |
| 45(44) | Preapical segments of maxillary palpus large, rounded, fourth much smaller than third and somewhat cubical | 46 |
| | Preapical segments of maxillary palpus not so large, slender, fourth not much smaller than third and not cubical | *...47 |
| 46(45) | Antenna filiform but not very slender; elytral epipleuron distinct only before middle | <i>Morphosphaera</i> |
| | In male second and third antennal segments minute and fourth to tenth with fairly long projections endoapically; in female second antennal segment minute, third twice as long as second, and fifth to eleventh each somewhat flattened and fifth to tenth slightly produced endoapically; elytral epipleuron distinct until apex | <i>Miltina</i> |
| 47(45) | Elytron without any reflexed area on suture | 48 |
| | Elytron with posterior portion of suture reflexed upwards and forming a narrow | |

- smooth space ; disc distinctly convex basally, then transversely impressed ; epi-
pleuron broad postmedially, narrowed apically *Parexosoma*
- 48(47) Pygidium punctured uniformly 49
Basal half of pygidium shiny, glabrous, finely shagreened, apical half densely
punctured, pubescent ; lateral margin of elytron visible from above ; body ovoid,
dilated posteriorly ; tibiae carinate and finely gooved above (Chevrolat, 1837 ; type :
Chrysomela alni Linnaeus ; Europe) *Agelastica* *
- 49(48) Third antennal segment almost, or more than, twice as long as second 50
Third antennal segment as long as, or 1 1/2 times as long as second 51
- 50(49) Elytron covered with haired spots on apical half *Hesperopenna*
Elytron without haired spots on apical half *Luperus*
- 51(49) Prosternal process narrow and not elevated between coxal cavities and not separat-
ing them *Calomicrus*
Prosternal process elevated between coxal cavities, separating them, at least anter-
iorly (Jacoby, 1903 ; type : *Chrysomela lusitanica* Linnaeus ; Europe) *Exosoma* *
- 52(44) Elytral epipleuron wide at base 53
Elytral epipleuron narrow, feebly and gradually narrowed from base to apex ;
pronotum transversely rectangular with straight sides and with distinct sublateral
depression ; hind femur slightly thickened (Ogloblin, 1936 ; type : *Luperus potanini*
Weise ; W. China) *Stenoluperus* *
- 53(52) Dorsal surfaces of body not covered with fine pubescence 54
Dorsal surfaces of body covered with fine pubescence ; body oval *Trichosepharia*
- 54(53) Anterior margin of labrum entire ; frontal tubercles not widely separated by frons ;
frons not depressed but with a longitudinal interantennal ridge 55
Anterior margin of labrum emarginate ; frontal tubercles widely separated by
frons ; frons broad, depressed in middle, without a longitudinal inter-antennal
ridge *Sinoluperus*
- 55(54) Head with frontal tubercle elongate-triangular with anterior angle acute, inserted
between antennal insertions and separated by a deep groove 56
Head with frontal tubercle transverse, with anterior angle short and its apex
inserted between these angles or confluent with them 57
- 56(55) Antenna robust, in preapical segments less than three times as wide as long ;
pronotum as long as or slightly wider than long *Medythia*
Antenna slender, in preapical segments more than three times as long as wide ;
pronotum transverse, much wider than long *Liroetiella*
- 57(55) Antenna robust, in preapical segments less than three times as long as wide *Desbordesius*
Antenna slender, in preapical segments more than three times as wide as
long *Atrachya*
- 58(27) First segment of posterior tarsus much longer than remainder combined ; tibia with
a long spine at apex 59
First segment of posterior tarsus usually shorter than, or sometimes subequal to,
remainder combined 64
- 59(58) Elytral epipleuron gradually narrowed behind, and wider at middle than 1/2 width
in basal portion 60
Elytral epipleuron suddenly narrowed at end of basal 1/3 and distinctly narrower at
middle than 1/2 width in basal portion *Monolepta*
- 60(59) Apex of elytron not truncate but rounded 61

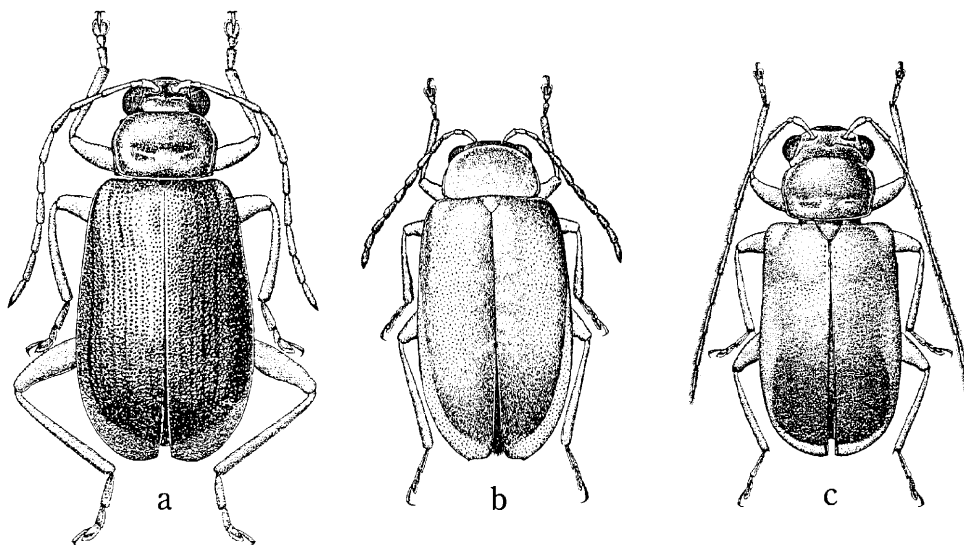


Fig. 3. a, *Platyxantha indica* (Jacoby); b, *Pseudoides pectoralis* (Laboissière); c, *Palpoxena coeruleipennis* (Baly).

- Apex of elytron truncate 62
- 61(60) Pronotum with basal margin entirely marginate ; interocular space much narrower than transverse diameter of eye ; elytron with lateral margin subparallel-sided *Liroetoides*
- Pronotum with basal margin marginate only on near side ; interocular space much wider than transverse diameter of eye ; elytron with lateral margin rounded *Sermyloides*
- 62(60) Elytron subparallel-sided or feebly rounded, truncated apically ; elytral epipleuron not unusually wide 63
- Elytron strongly widened and rounded laterally ; elytral epipleuron abnormally wide (Laboissière, 1936 ; type : *Sepharia dilatipennis* Fairmaire ; W. China) *Pseudosepharia**
- 63(62) Head without any excavation in male ; in many species elytron with a pair of depression subbasally *Paleosepharia*
- Head with excavation in male ; elytron without any depression subbasally (Baly, 1878 ; type : *Macrima armata* Baly ; Kashmir) *Macrima**
- 64(58) Pronotum with basal margin not marginate except near side 65
- Pronotum with basal margin entirely marginate 68
- 65(64) Pronotum with posterior corner rounded, subobtusate, and transverse furrow or depression shallower 66
- Pronotum with posterior corner distinctly angulated and transverse furrow deep-
..... *Aplosomyx*
- 66(65) Antenna robust, second and third segments subequal 67
- Antenna slender, third segment twice as long as second *Leptarthra*
- 67(66) Pronotum with a large and deep fovea on each side of middle (Reitter, 1912 ; type : *Chrysomela halensis* Linnaeus ; Europe) *Seymylassa**
- Pronotum without a distinct fovea laterally *Sphenoraia*

68(64)	Pronotum with a pair of short longitudinal furrows which start from basal margin	69
	Pronotum without longitudinal furrows	70
69(68)	Body suboval, moderately convex	<i>Cassena</i>
	Body subspherical, strongly convex	<i>Cyclanthipha</i>
70(68)	Posterior tibia with a single spine at apex	71
	Posterior tibia with many short spines at apex	80
71(70)	Pronotum without any depression laterally ; antenna longer than half as long as body length	72
	Pronotum with a pair of distinct depressions laterally	75
72(71)	Prosternum narrow, but visible between coxae	73
	Prosternum not extending between coxae (Weise, 1886 ; type : <i>Crioceris xanthopus</i> Duftschmid ; Europe)	<i>Euluperus</i> *
73(72)	Head with frontal tubercles not widely separated by frons	74
	Head with frontal tubercles widely separated by frons, elytron with more or less irregularly arranged in paired rows of punctures, and their interstices slightly convex	<i>Vietoluperus</i>
74(73)	Antenna slender, fifth to eighth segments more than twice as long as wide	<i>Pseudoides</i>
	Antenna robust, fifth to eighth segments nearly 1 1/2 times as long as wide	<i>Eumelepta</i>
75(71)	Elytral punctures not regularly striated	76
	Elytral punctures regularly and longitudinally striated	77
76(75)	Head with frontal tubercles not widely separated by frons, anterior margin of clypeus entire	<i>Hoplosaenidea</i>
	Head with frontal tubercles widely separated by frons, anterior margin of clypeus emarginate	<i>Sinoluperoides</i>
77(75)	Claws of same character	78
	Claws not of same character; anterior and middle claws normal, appendiculate, posterior claw long, curved ; dorsal surfaces sparsely covered with fine hairs	<i>Doryscus</i>
78(77)	Each elytron with double rows of punctures with an indistinct short scutellar row, interstices raised between double rows	79
	Each elytron with eleven longitudinal rows of punctures including a short scutellar row, the rows equidistant ; pronotum without distinct depressions	<i>Strobiderus</i>
79(78)	Dorsal surfaces of elytron thickly covered by hairs	<i>Trichobalya</i>
	Elytral surface sparsely covered by hairs	<i>Theopea</i>
80(70)	Pronotum not very short, with or without a pair of depressions ; elytron without rugosities	81
	Pronotum very short, with a large depression which covers much of surface ; elytral epipleuron narrow and disc with rugosities	<i>Paraplotes</i>
81(80)	Eye rather small ; gena subequal to, or deeper than, half transverse diameter of an eye	82
	Eye rather large ; gena shallower than half transverse diameter of an eye	84
82(81)	Elytron without any trace of costae, sparsely and confusedly impressed by fine punctures	83
	Elytron with several weakly raised costae and punctation with tendency toward longitudinal rows along these costae	<i>Platyxantha</i>
83(82)	First segment of posterior tarsus subequal to following segments combined ; pronotum with a pair of lateral depressions ; elytral surface with transverse depres-	

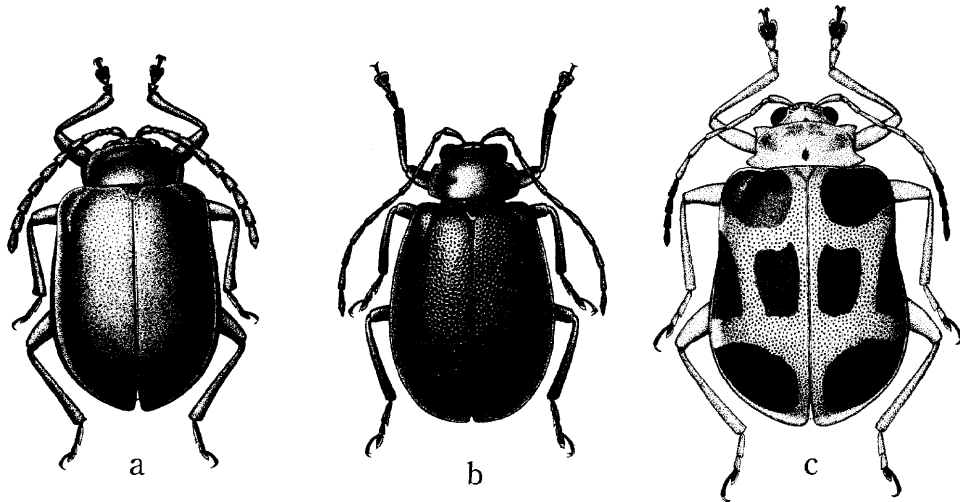


Fig. 4. a, *Sphenoraia* (*Sphenoraoides*) *micans* (Fairmaire) ; b, *Cneorella suisapana* (Gressitt & Kimoto) ; c, *Laphris sexplagiata* Laboissière.

- sion behind subbasal area *Palpoxena*
 First segment of posterior tarsus distinctly shorter than following segments combined ; pronotum convex side to side, without any trace of depression laterally ; elytron without any trace of transverse depression behind subbasal area *Laosixantha*
- 84(81) Anterior border of pronotum unmarginated, or indistinctly margined **85**
 Anterior border of pronotum distinctly margined 88
- 85(84) First tarsal segment of posterior leg slender, subequal to the length of remainder combined 86
 First tarsal segment of posterior leg robust, distinctly shorter than or subequal to the length of remainder combined ; depression of pronotum feebly impressed 87
- 86(85) Pronotum impressed by a pair of deep depressions laterally *Hyphaenia*
 Pronotum convex side to side without any distinct depression laterally *Cassenoides*
- 87(85) Gena 2/5 to 1/2 as deep as transverse diameter of eye ; antenna with fourth to tenth segments flattened above ; frons of male pitted or carinate *Acroxena*
 Gena about 1/4 as deep as transverse diameter of eye ; antenna with fourth to tenth segments cylindrical ; frons of male triangular, weakly convex (Gressitt & Kimoto, 1963 ; type : *Epaenidea subviridis* Gressitt & Kimoto ; Hainan Is.) *Epaenidea**
- 88(84) Dorsal surfaces glabrous 89
 Dorsal surfaces closely covered with fine erect hairs *Pseudeustetha*
- 89(88) Gena distinctly narrower than 1/3 of transverse diameter of an eye 90
 Gena wider than, or subequal to, 1/3 transverse diameter of an eye ; in male fourth antennal segment more than three times as long as length of second and third combined ; pronotum subquadrate (Weise, 1889 ; type : *Proegmena pallidipennis* Weise ; S. China) *Proegmena**
- 90(89) Body oval or elongate 91
 Body semispherical, pronotum convex side to side, in male third antennal segment

- clearly longer than second in length *Emathea*
- 91(90) Pronotum narrower than twice as wide as long 92
 Pronotum nearly twice as wide as long or more wider, and its lateral margin rounded *Doryidella*
- 92(91) Pronotum with lateral margin rounded, narrowed anteriorly and posteriorly, and its surface convex from side to side, without any distinct depression laterally 93
 Pronotum with lateral margin almost straight, widest almost at anterior margin and narrowed posteriorly, and its surfaces impressed by a pair of shallow depressions laterally ; in male third antennal segment longer than second in length *Dercetisoma*
- 93(92) Third antennal segment shorter than or subequal to second in length in male ... *Arthrotus*
 Third antennal segment clearly longer than second in length in male *Dercetina*
- 94(2) Posterior tibia without any spine at apex 95
 Posterior tibia with a minute but distinct spine at apex 96
- 95(94) Lateral margin of pronotum rounded ; antenna slenderer *Doryida*
 Lateral margin of pronotum almost straight and subparallel-sided ; antenna robust *Doryidomorpha*
- 96(94) Third antennal segment four times as long as second *Laphris*
 Third antennal segment subequal to, or twice as long as second *Gallerucida*

Genus *Atysa* Baly

Atysa Baly, 1864, Trans. Ent. Soc. London, ser. 3, 2 : 238 (type : *Atysa terminalis* Baly ; New Guinea).

Triaplatharthis Fairmaire, 1878, Ann. Soc. Ent. France, ser. 5, 8 : 138 (type : *Triaplatharthis pyrochroides* Fairmaire ; China).-Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B: 391, **408**.

Formosogalerucella Pic, 1928, Mél. Exot. Ent., 61 : 32 (type : *Formosogalerucella brevithorax* Pic ; Formosa).

Atysa marginata (Hope) Fig. 1a

Auchenia marginata Hope, 1831, in Gray, Zool. Misc. : 29 (Nepal ; BM).

Atysa marginata : Maulik, 1936, Fauna India, Galeruc.: 245 (Nepal, W. Himalaya, Assam, Burma).
 —Kimoto & Takizawa, 1972, Kontyû, Tokyo, 40(4) : 216 (Nepal).

Atysa mureana Maulik, 1936, Fauna India, Galeruc. : 247 (Punjab ; BM).-Kimoto, 1982, Ent. Rev. Japan, 37(1) : 8 (= *marginata*).

Atysa sudyana Maulik, 1936, Fauna India, Galeruc. : 248 (Assam ; BM).-Kimoto, 1982, Ent. Rev. Japan, 37(1) : 8 (= *marginata*).

Triaplatharthis collaris Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B: 408 (S. China ; BISHOP).
 —Kimoto, 1982, Ent. Rev. Japan, 37(1) : 8 (= *marginata*).

Triaplatharthis marginata Gressitt & Kimoto, 1982, Pac. Ins. Mon., 1B: 408, 409, fig. (SE China ; BISHOP).-Kimoto, 1982, Ent. Rev. Japan, 37(1) : 8 (= *Auchenia marginata* Hope).

Distribution: India, Nepal, Burma, Vietnam, S. China.

Oblong, pronotum subquadrate, elytron subparallel-sided, dorsal surfaces entirely covered with fine hairs ; head, antenna, legs and ventral surfaces blackish, dorsal surfaces generally blackish with sutural and lateral margins of elytron reddish brown, in most dark colored specimen entirely blackish ; length 5.0—7.5 mm.

Material examined. VIETNAM : Fyan, 1 ex., 11. vii.-9. viii. 1961, N. R. Spencer (BISHOP).

Genus *Luperocida* Medvedev & Dang Dap

Luperocida Medvedev & Dang Dap, 1981, Rev. d'Ent.l'USSR,60(3): 634 (type: *Luperocida kabakovi* Medvedev & Dang Dap ; Vietnam).

According to the original description, this genus should be included in Galerucini in having the head and pronotum densely covered by punctures. This genus somewhat resembles *Doryxena*, in having the metasternum extended anteriorly, but is separable in having the anterior coxal cavity closed posteriorly and all tibiae with spine, long on posterior tibia.

Luperocida kabakovi Medvedev & Dang Dap

Luperocida kabakovi Medvedev & Dang Dap, 1981, Rev. d'Ent.l'USSR,60(3): 640 (Vietnam).

Distribution : Vietnam.

Body elongate-oval, weakly tapering anteriorly. Uniformly bright yellow, only apical segments of antenna slightly darkened at tip. Clypeus and front shining, with solitary punctures, vertex dull, shagreened, with dense fine punctation. Pronotum shagreened, with dense, smoothed-over shagreening and dense uniform punctation, somewhat larger than on pronotum. Scutellum and epipleuron smooth and shining. Length 10 mm (after translation by Entomological Rev., Wash. : 114).

No material was examined.

Genus *Issikia* Chûjô

Issikia Chûjô, 1961, Pub. Ent. Lab Univ. Osaka Pref., 6 : 87 (type : *Issikia issikii* Chûjô ; Ryukyu Is.).-Kimoto, 1966, J. Fac. Agr Kyushu Univ., 13(4) : 669 (*Isshikia* ; error).

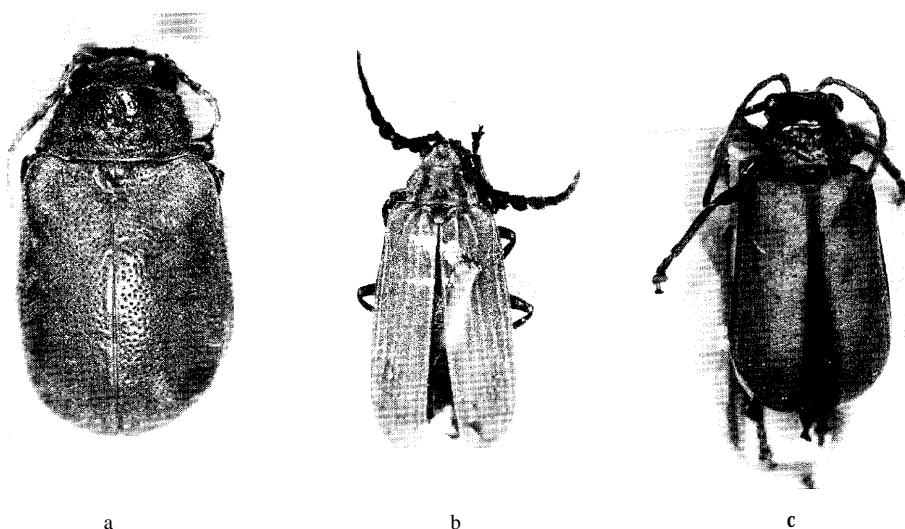


Fig. 5. a, *Menippus cervinus* (Hope) ; b, *Falsopltyxantha aurantiaca* Pic ; c, *Poneridia costata* (Allard).

***Issikia dimidiaticornis* (Jacoby), new combination** Fig. 6a

Menippus dimidiaticornis Jac., 1889, Ann. Mus. Civ. Genova, 27 : 218 (Burma ; BM).—Maulik, 1936, Fauna India, Galeruc. : 243 (Burma).

Galerucella sericea Weise, 1889, Horae Soc. Ent. Ross., 23 : 569, 622 (China ; ZMB).

Galerotella garoana Maulik, 1936, Fauna India, Galeruc. : 271 (Assam ; BM).—Kimoto, 1979, Ent. Basiliensia, 4 : 464 (= *dimidiaticomis*).

Pyrrhalta sericea : Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B : 442, 464, fig. (China).—Kimoto, 1969, Esakia, Kyushu Univ., 7 : 24 (Taiwan) ; 1979, Ent. Basiliensia, 4 : 464 (= *dimidiaticomis*).

Pyrrhalta dimidiaticomis : Kimoto, 1979, Ent. Basiliensia, 4 : 464 (India).

Distribution : India, Burma, Thailand, Laos, Vietnam, China, Taiwan.

Suboval, slightly depressed, dorsal surfaces closely covered by fine hairs; generally yellowish brown, with apex of each antennal segment blackish ; length 6.8—8.3 mm.

Material examined. THAILAND: Phet Buri, 10 exs., 13. i. 1963 (BANGKHEN) ; Banna, Chawang nr. Nabon, 70 m, 1 ex., 5. ix. 1958, J. L. Gressitt (BISHOP). LAOS : Vientiane Prov., Ban Van Eue, 2 exs., 30. i. 1966, 1 ex., 31. v. 1966, Native collr ; Khammouane Prov., Phon Tiou, 1 ex., 30. iv. 1965, Native collr (BISHOP) ; Umgeb. Vientiane, 2 exs., iii.-vi. 1963 (MUNCHEN). VIETNAM : Ban Me Thuot, 500 m, 2 exs., 16-18. v. 1960, S. Quate & L. Quate ; Dak Song, 76 km SE of Ban Me Thuot, 870 m, 1 ex., 19-21. v. 1960, S. Quate & L. Quate ; Mt. Lang, Bian, 1,500-2,000 m, 1 ex., 19. v.-8 vi. 1961, N. R. Spencer ; Dilingh (Djiring), 1,200 m, 1 ex., 22-28. iv. 1960, S. Quate (BISHOP).

Genus *Menippus* Clark

Menippus Clark, 1864, J. Ent., 2 : 257 (type : *Menippus cynicus* Clark ; Queensland).—Chapuis, 1875, Gen. Col., 11 : 220, 222.—Maulik, 1936, Fauna India, Galeruc. : 241.—Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B : 411.

***Menippus cervinus* (Hope)** Fig. 5a

Galleluca cervina Hope, 1831, in Gray, Zool. Miscel. : 29 (Nepal ; BM).

Menippus canellinus Fairm., 1888, Ann. Soc. Ent. France, ser. 6, 8 : 374 (Tonkin ; PARIS).

—Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B : 411 (China, Vietnam). New **synonym**.

Menippus cervinus : Maulik, 1936, Fauna India, Galeruc. : 242 (Nepal, United Provinces, Burma).

—Kimoto & Takizawa, 1972, Kontyû, Tokyo, 40(4) : 215 (Nepal).

Distribution : India, Nepal, Burma, Thailand, Laos, Vietnam, China, Hainan.

Suboval, strongly convex ; dorsal surfaces thickly covered by adpressed fine hairs; generally yellowish brown, ventral surfaces and legs mostly pitchy brown ; length 6.9-8.7 mm.

Material examined. THAILAND : Chiangmai, 1,100-1,500 m, 3 exs., 1966, J. Sedlacek (BISHOP). LAOS : Vientiane Prov., Vientiane, 1 ex., iii. 1966, J. Sedlacek (BISHOP).

Genus *Falsoplatyxantha* Pic

Falsoplatyxantha Pic, 1927, Mél. Exot. Ent., 49 : 23 (type : *Falsoplatyxantha aurantiaca* Pic ; Vietnam).

Falsoplatyxantha aurantiaca Pic Fig. 5b

Falsoplatyxantha aurantiaca Pic, 1927, Mél. Exot. Ent., 49 : 23 (Tonkin; PARIS).

Distribution : Vietnam.

No additional material was examined beside the type series.

Genus **Apophylia** Thomson

Apophylia Thomson, 1858, Arch. Ent., 2 : 221 (type : **Apophylia chloroptera** Thomson ; Gabon).

—Maulik, 1936, Fauna India, Galeruc. : 78.—Ogloblin, 1936, Fauna USSR, 26, 1 : 138, 369.

—Chûjô, 1962, Phil. J. Sci., 91 (1-2) : 18.—Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B ; 391, 426.

—Kimoto, 1965, J. Fac. Agr. Kyushu Univ., 13 : 291.

Malaxia Fairmaire, 1878, Ann. Soc. Ent. France, ser. 5, 8 : 139.

Glyptolus Jacoby, 1884, Notes Leyden Mus., 6 : 62.

Galerucesthis Weise, 1896, Dtsche Ent. Z., 1896 : 296.

KEY TO SPECIES OF *Apophylia*

- 1 Legs generally pitchy brown to black2
 Legs generally yellowish brown4
- 2(1) Pronotum generally with deep excavation or depression dorsally3
 Pronotum without deep excavation or depression dorsally, mostly dark brown ; generally pitchy black to brown, clypeus yellowish brown, with tibiae and tarsi brownish, elytron brownish green ; in male posterior femur expanded subapically and bearing a tuft of hairs in middle of posterior femur, and antenna more closely covered by long hairs ; length 4.0—5.3 mm *purpurea*
- 3(2) Pronotum entirely blackish or bluish ; generally black, clypeus and labrum reddish to yellowish brown, elytron dark blue ; length 5.0-5.5 mm *cyanipennis*
 Pronotum yellowish brown with a large blackish marking on middle ; generally pitchy black, head black with clypeus and labrum reddish to yellowish brown ; length 8-9 mm *epipleuralis*
- 4(1) Pronotum with a pair of deep depressions5
 Pronotum without deep depression 6
- 5(4) Pronotum entirely black ; generally black, with clypeus and legs entirely yellowish brown, antenna pitchy black, elytron greenish ; length 4.5-5.2 mm *pallipes*
 Pronotum yellowish brown with a distinct blackish marking on middle, in pale colored specimen entirely brownish ; generally black, clypeus pitchy brown, legs yellowish brown, in most specimens ventral surfaces of femora and tibiae and entire tarsi pitchy black ; elytron greenish ; length 4.2—5.1 mm *sericea*
- 6(4) In male metathorax with distinct tubular projection; ventral surfaces partly brownish7
 In male metathorax without any remarkable tubular projection ; ventral surfaces generally pitchy black ; head yellowish brown with vertex black ; pronotum entirely yellowish brown, legs entirely yellowish brown, elytron greenish ; length 4.5-4.8 mm *flavovirens*
- 7(6) In male metasternum armed with a robust tubular projection posteriorly and markedly bifurcated apically, and anterior tibia markedly expanded medially ; ventral surfaces

generally pitchy black, in some specimen abdomen partly or entirely brownish ; head yellowish brown with vertex black, pronotum and legs yellowish brown, elytron greenish ; length 5.0-5.8 mm *fulcigera*

In male metasternum strongly prominent into a peculiar beak-like projection apically ; ventral surfaces pitchy brown, with abdomen largely yellowish brown ; head yellowish brown with vertex black, pronotum and legs yellowish brown, elytron greenish ; length 5.0-5.3 mm *securigera*

***Apophyllia cyanipennis* Laboissière**

Apophyllia cyanipennis Lab., 1927, Ann. Soc. Ent. France, 96 : 59 (Tonkin HAMBURG).

Distribution : Vietnam.

No additional material was examined beside the type series.

***Apophyllia epipleuralis* Laboissière Fig. 6b**

Apophyllia epipleuralis Lab., 1927, Ann. Soc. Ent. France, 96 : 60 (Tonkin : Ha-Giang ; Yunnan ; HAMBURG, PARIS).-Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B : 427, 428 (China, Hainan).

Apophyllia geniculata Pic, 1931, Mel. Exot. Ent., 57 : 21 (China ; PARIS).-Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B : 428 (= *epipleuralis*).

Distribution : Thailand, Vietnam, S. China, Hainan.

Material examined. THAILAND : Chiangmai Prov., Doi Suthep, 1,278 m, 1 ex., 29. iii.-4. v. 1958, T. C. Maa (BISHOP).

***Apophyllia flavovirens* (Fairmaire) Fig. 6c**

Malaxia flavovirens Fair-m., 1878, Ann. Soc. Ent. France, ser. 5, 8 : 139 (C. China ; PARIS).

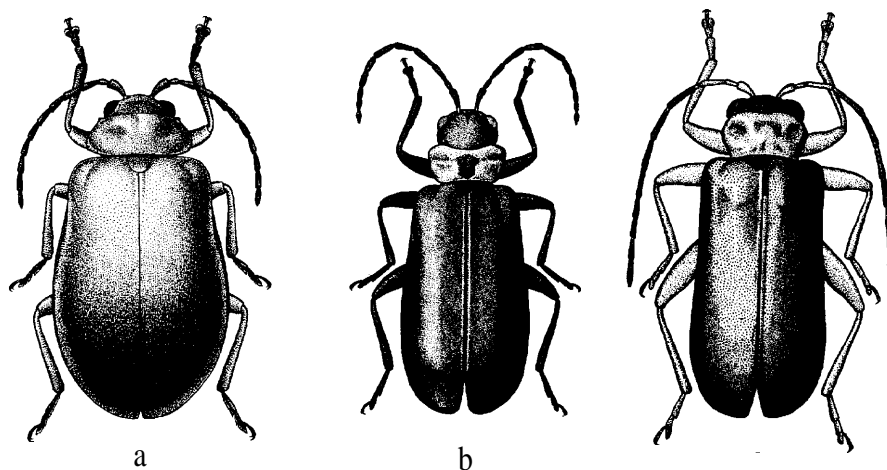


Fig. 6. a, *Issikia dimidiaticornis* (Jacoby) ; b, *Apophyllia epipleuralis* Laboissière ; c, *A. flavovirens* (Fairmaire).

Apophyllia pectoralis Pic, 1927, Bull. Soc. Zool. France, 52 : 189 (Laos ; PARIS). New **synonym**.

Apophyllia flavovirens: Ogloblin, 1936, Fauna USSR, 26, 1 : 141, 393 (Tonkin, Annam).—Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B : 427, 428 (China, Hainan).—Kimoto, 1965, Ann. Naturhist. Mus. Wien, 68 : 489 (Taiwan).

Distribution : Thailand, Laos, Vietnam, China, Hainan, Taiwan.

Material examined. THAILAND : Chiangmai Prov, Fang, 1 ex., 14. vi. 1965, K. Morimoto (KU). LAOS : Vientiane Prov., Ban Van Eue, 1 ex., 31. i. 1967., Native collr ; Luang Prabang, 300 m, 5 exs., 11-12. vi. 1965, light trap, S. Quate & L. Quate ; Ban Theuong, 18 km NW of Xieng Khouang, 1,035 m, 1 ex., 2-6. viii. 1960, R. E. Leech (BISHOP) ; Umgeb. Paklay, 1 ex., 1963 (MUNCHEN). VIETNAM : Ban Me Thuot, 500 m, 2 exs., 16-18. v. 1960, L. W. Quate ; 31 km S. of Dilinh (Djiring), 1,050 m, 1 ex., 29. 1960, R. E. Leech (BISHOP).

***Apophyllia fulcigera* Chûjô**

Apophyllia fulcigera Chûjô, 1962, Nature and Life in SE Asia, Kyoto, 2 : 103, figs. (Thailand ; CHUJO) ; 1954, *ibid.*, 3 : 284 (Thailand).

Distribution : Thailand, Laos, Vietnam.

Material examined. THAILAND : Khao Yai Nat. Park, 2 exs., 6. vi. 1965, Y. Miyatake (KU). LAOS : Borikhane Prov., Pakkading, 8 exs., 13. vii. 1965, Native collr (BISHOP) ; Umgeb. Paklay, 1 ex., 1963 (MUNCHEN). VIETNAM : Pleiku, 700 m, 1 ex., 8-14. v. 1960, L. W. Quate ; 20 km N. of Pleiku, 650 m, 6 exs., 9. v. 1960, S. Quate ; 34 km N. Phan Rang, 3 exs., 9. xi. 1960, C. M. Yoshimoto (BISHOP).

It is rather difficult to separate this species from *flavovirens* in female. The followings are all female specimens and here identified as *fulcigera* with some question. THAILAND : Khon Kaen, 1 ex., 13. x. 1972, M. Sato (EHIME). LAOS : Vientiane Prov., Gi Sion Vill., de Tha Ngone, 1 ex., 2. i. 1966, Native collr ; Sedone Prov, Pakse, 1 ex., 2. viii. 1965, Native collr ; Sedone Prov., Paksong, 1 ex., 5. vii. 1965, Native collr ; Muong Sing, NW of Luang Prabang, 650 m, 1 ex., 6-10. vi. 1960, S. Quate & L. Quate (BISHOP). VIETNAM : Nha Ho, 14 km N. Phan Rang, 2 exs., 15. xi. 1960, C. M. Yoshimoto (BISHOP).

***Apophyllia pallipes* (Jacoby)**

Malaxia pallipes Jacoby, 1892, Ann. Mus. Civ. Genova, 32 : 969 (Burma ; GENOVA).

Apophyllia pallipes : Maulik, 1936, Fauna India, Galeruc. : 86 (Burma, Assam).—Chûjô, 1961, Nature and Life in SE Asia, Kyoto, 1 : 349 (Thailand) ; 1964, *ibid.*, 3 : 284 (Thailand).—Kimoto, 1977, Ent. Basiliensia, 2 : 353 (Bhutan).

Distribution : India, Burma, Bhutan, Thailand.

Material examined. THAILAND : Chiangmai Prov., Doi Suthep, 1,300 m, 1 ex., 8. vi. 1965, P. D. Ashlock ; Chiangmai Prov., Doi Pui, 1,685 m, 1 ex. 17. vi. 1965, P. D. Ashlock ; Trang Prov., Khao-phappa Khaochong, 200 m, 11 exs., 9-15. i. 1964, G. A. Samuelson ; Banna, Chawang, nr. Nabon, 70 m, 2 exs., 4-5. ix. 1958, J. L. Gressitt (BISHOP).

***Apophyllia purpurea* (Allard)**

Malaxia purpurea All., 1888 (1889), Ann. Soc. Ent. France, ser. 6, 8 : 332 (China ; HAMBURG) ; 1889, *ibid.*, ser 6, 9 : 312 (Saigon) ; 1889, C. R. Soc. Ent. Belg., 33 : 81 (China).

Apophyllia saigonensis Pic, 1927, Mel. Exot. Ent., 50 : 2 (Saigon ; PARIS). New **synonym**.

Apophyllia purpurea: Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B: 427, 431 (China).

Distribution : Cambodia, Laos, Vietnam, China.

Material examined. CAMBODIA : Ph. Chisau, 40 km S. of P. Penh, 20 m, 1 ex., 29. iv. 1961, N. R. Spencer (BISHOP). LAOS : Muong Sing, NW of Luang Prabang, 650 m, 8 exs., 6-10. vi. 1960, S. Quate & L. Quate (BISHOP).

Apophyllia securigera Chûjô

Apophyllia securigera Chûjô, 1962, Nature and Life in SE Asia, Kyoto, 2 : 105, fig. (Thailand ; CHUJO) ; 1964, *ibid.*, 3 : 285 (Thailand).

Distribution : Thailand, Laos.

Material examined. THAILAND : Chiangmai Prov., Fang, 500 m, 2 exs., 12. iv. 1958, 1 ex., 19. iv. 1958, T. C. Maa (BISHOP). LAOS : Luang Prabang, 1 ex., 11-12. vi. 1960, light trap, S. Quate & L. Quate (BISHOP) ; Umgeb. Vientiane, 1 ex., iii-vi. 1963 (MUNCHEN).

Apophyllia sericea (Fabricius)

Cantharis sericea Fabr., 1798, Suppl. Ent. Syst. : 69 (Tranquebariae).

Galleruca sericea : Fabr., 1801, Syst. El., 1 : 485 (India orientali).

Apophyllia sericea : Maulik, 1936, Fauna India, Galeruc. : 84 (India, Eastern Himalayas).-Kimoto, 1977, Ent. Basiliensia, 2 : 354 (Bhutan).

Distribution : India, Bhutan, Thailand.

Material examined. THAILAND : Trang Prov., Khaophappa Khaochang, 200-400 m, 28 exs., 1-13. i. 1964, G. A. Samuelson ; Nakhon Nayok Prov., Khao Yai Nat. Park, 2 exs., 5-6. vi. 1965, P. D. Ashlock (BISHOP) ; Chiang Dao, 1 ex., 15. vi. 1965, K. Morimoto (KU).

Genus **Poneridia** Weise

Poneridia Weise, 1908, Nova Guinea, Zool., 5 : 323 (type: *Galleruca australis* Boheman ; Nova Hollandia).

Poneridia costata (Allard) Fig. 5c

Galerucella costata All., 1889, Ann. Soc. Ent. France, 58 : 312 (Annam ; PARIS).

Poneridia costata : Laboissiere, 1935, Ann. Ass. Nat. Levallois-Perret, 21 : 144 (Indo-China).

Distribution : Vietnam.

No additional material was examined beside the type series.

Genus **Pseudadimonia** Duvivier

Pseudadimonia Duviv., 1891, C. R. Soc. Ent. Belg., 35 : 46 (type: *Colaspis variolosa* Hope ; Nepal).

-Maulik, 1936, Fauna India, Galeruc. : 92.—Ogloblin, 1936, Fauna URSS, 26, 1 : 68, 368,

-Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B : 391, 417.

Pseudadimonia variolosa (Hope) Fig. 7a

Colaspis variolosa Hope, 1831, in Gray, Zool. Misc., 30 (Nepal ; BM).

Pseudadimonia variolosa : Duvivier, 1891, C. R. Soc. Ent. Belg., 35 : 47 (Ostindien u. Birma).—Maulik, 1936, Fauna India, Galeruc. : 94, figs. (India, Nepal, Burma, Yunnan, Siam).—Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B : 417 (Yunnan).—Chûjô, 1964, Nature and Life in SE Asia, Kyoto, 3 : 298 (Thailand).—Kimoto, 1972, Tijdschr. Ent., 93 (4) : 145 (Annam).—Kimoto & Takizawa, 1972, Kontyû, Tokyo, 40(4) : 215 (Nepal) ; 1981, Ent. Rev. Japan, 35 (1-2) : 58 (Nepal) ; 1983, Bull. Natn. Sci. Mus., Tokyo, ser. A, 9(2) : 86 (Nepal).

Distribution : India, Nepal, Burma, Thailand, Laos, Vietnam, China.

Suboval, convex, dorsal surfaces entirely glabrous, closely impressed by strong punctures, and their interstices distinctly raised and much narrower than average diameter of punctures ; generally black, in some specimen posterior 1/3 of femora yellowish brown ; length 8.0-11.3 mm.

Material examined. THAILAND : Chiang Mai Prov., Doi Suthep, 1,000 m, 1 ex., 12. v. 1965, K. Morimoto (KU) ; Musa, nr. Fang, 1 ex., 22. xi. 1968, K. Hatta (EHIME) ; Kanchanaburi, 2 exs., 31. v. 1962 (BANGKHEN) ; Banna, Nakhon, 108 m, 1 ex., 5-10. v. 1958, T. C. Maa (BISHOP). LAOS : Umgeb. Vientiane, 2 exs., iii-vi. 1963 (MUNCHEN) ; Vientiane Prov., Ban Van Eue, 1 ex., 1-15. v. 1965, J. A. Rondon, 4 exs., 30. x. 1965, 4 exs., 15-30. iii. 1967, 1 ex., 20. xi. 1966, Native collr ; Tonpheng, 1 ex., 15. v. 1966, Native collr (BISHOP). VIETNAM : Dilinh (Djiring), 920 m, 1 ex., 22-28. iv. 1960, L. W. Quate (BISHOP).

Genus ***Pyrrhalta*** Joannis

Pyrrhalta Joannis, 1866, Abeille, 3 : 82 (type : *Galeruca viburni* Paykull ; Europe).—Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B : 392, 438.—Kimoto, 1964, J. Fac. Agr. Kyushu Univ., 13(2) : 294.

Decoomunius Laboissiere, 1927, Ann. Soc. Ent. France, 96 : 55 (type: *Decoomaninus limbatus* Laboissiere ; Tonkin ; monobasic). New **synonym**.

Chapalia Laboissike, 1929, Ann. Soc. Ent. France, 98 : 269 (type : *Chapalia jeanvoinei* Laboissiere ; Vietnam ; monobasic). New **synonym**.

Tricholochmaea Laboissiere, 1932, Bull. Mus. Natn. Hist. Nat., Paris, ser. 2, 4 : 963 (type : ***Lochumaea*** (*Tricholochmaea*) *indica* Laboissiere ; India ; as a subgenus of ***Lochmaea***).

Xanthogaleruca Laboissière, 1934, Ann. Soc. Ent. France, 103 : 67 (type : *Chrysomela luteola* Müller ; Europe).

Galerucella : Maulik, 1936, Fauna India, Galeruc. : 214.—Ogloblin, 1936, Fauna USSR, 26, 1 : 112, 387.—Chûjô, 1962, Phil. J. Sci., 91 : 33.

Galerucella (*Pyrrhalta*) : Ogloblin, 1936, Fauna USSR, 26, 1 : 97.

Galerucella (*Tricholochmaea*) : Ogloblin, 1936, **ibid.** : 91.

Galerucella (*Xanthogaleruca*) : Ogloblin, 1936, **ibid.** : 92.

Neogalerucella Chûjô, 1962, Phil. J. Sci., 91 : 38 (type : *Chrysomelatenella* Linnaeus ; Europe ; as a subgenus of *Galerucella*).

KEY TO SPECIES OF *Pyrrhalta*

- | | | |
|------|---|--------------------|
| 1 | Antenna robust, in preapical segments nearly as long as wide | 2 |
| | Antenna slender, in preapical segments much longer than wide | 5 |
| 2(1) | Elytron largely greenish | 3 |
| | Elytron not largely greenish | 4 |
| 3(2) | Elytron greenish with lateral margin including epipleuron brownish ; generally yellowish brown; length 9.0 mm | <i>laboissieri</i> |

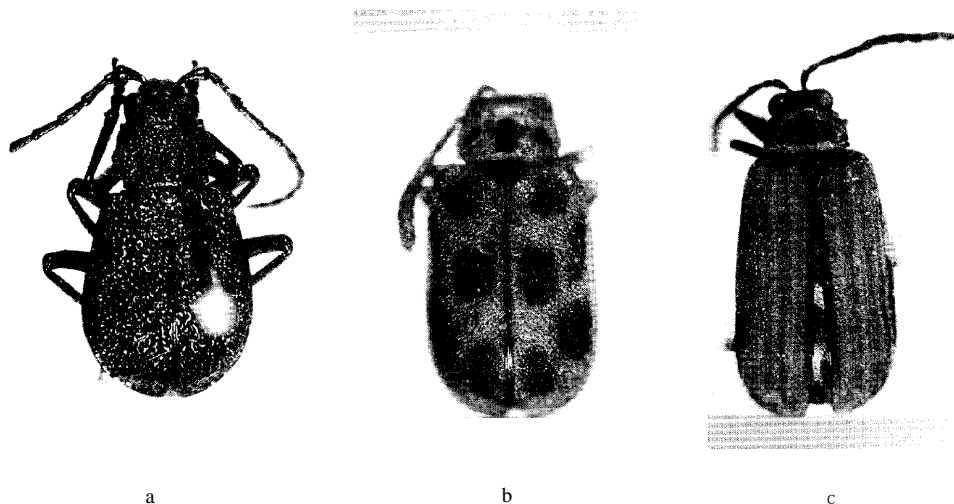


Fig. 7. a, *Pseudadimonia vasiolosa* (Hope) ; b, *Pyrrhalta maculata* Gressitt & Kimoto ; c, *Pyrrhalta multicostata* (Pic).

- Generally greenish ; abdomen brownish ; length 3.5-6.5 mm *limbata*
- 4(2) Elytron reddish brown with interior 1/3 blackish ; generally black, clypeus brownish ; length 5.0 mm *rubromarginata*
- Elytron reddish brown with five spots blackish ; generally reddish brown, with middle of vertex, three spots across middle of pronotum, scutellum and metasternum black ; length 4.0-4.5 mm *maculata*
- 5(1) Elytron largely brownish 6
- Elytron greenish with marginal area brownish ; generally yellowish brown, antenna blackish ; length 4.5 mm *jeanvoinei*
- 6(5) Elytron with four longitudinal costae dorsally ; generally reddish brown with middle of vertex, a longitudinal median stripe, scutellum and sutural margin of elytron blackish ; antenna, legs and ventral surfaces blackish ; length 4.8-5.0 mm *multicostata*
- Elytron with a longitudinal costa starting from humerus ; entirely yellowish brown ; elytral epipleuron distinct only on basal 1/2 ; length 5.5-6.2 mm *unicostata*

***Pyrrhalta jeanvoinei* (Laboissière), new combination**

Chapalia jeanvoinei Lab., 1929, Ann. Soc. Ent. France, 98 : 270, fig. (Tonkin ; BRUXELLES).

Distribution : Vietnam.

No additional material was examined beside the type series.

***Pyrrhalta laboissieri*, new name**

Periclitena limbata Lab., 1929, Ann. Soc. Ent. France, 98 : 268 (nec *Decoomanius limbatus* Laboissière, 1927) (Tonkin ; BRUXELLES).

Distribution : Vietnam.

No additional material was examined beside the type series.

***Pyrrhalta zimbata* (Laboissière), new combination Fig. 9a**

Decoomanius limbatus Lab., 1927, Ann. Soc. Ent. France, 96 : 56, fig. (Tonkin ; PARIS).

Distribution : Vietnam.

No additional material was examined beside the type series.

***Pyrrhalta maculata* Gressitt & Kimoto Fig. 7b**

Pyrrhalta maculata Gressitt & Kimoto, 1963, Pac. Ins. Mon. 1B : 439, 456, fig. (SE China, Taiwan ; BISHOP).

Distribution : Thailand, Vietnam, SE China, Taiwan.

Material examined. THAILAND : Chiangmai Prov., Doi Suthep, 1 ex., 1-8. iv. 1958, T. C. Maa (BISHOP). VIETNAM : Dalat, 6 km S., 1,400-1,500 m, 1 ex., 9. vi.-7. vii. 1961, N. R. Spencer ; Fyan, 900-1,000 m, 1 ex., 11. vii.-9. viii. 1961, N. R. Spencer (BISHOP).

***Pyrrhalta multicostata* (Pic), new combination Fig. 7c**

Galerucella multicostata Pic, 1928, Mél. Exot. Ent., 51 : 32 (Tonkin ; PARIS).

Galerucella aludela Maulik, 1936, Fauna India, Galeruc. : 220 (Burma ; BM). New **synonym**.

Distribution : Burma, Thailand, Vietnam.

Material examined. THAILAND : Chiang Mai Prov., Doi Pui, 1,300 m, 1 ex., 8. vi. 1965, Y. Miyatake (KU).

***Pyrrhalta rubromarginata* (Laboissière), new combination**

Galerucella rubromarginata Lab., 1929, Ann. Soc. Ent. France, 98 : 271 (Tonkin ; HAMBURG).

Distribution : Vietnam.

No additional material was examined beside the type.

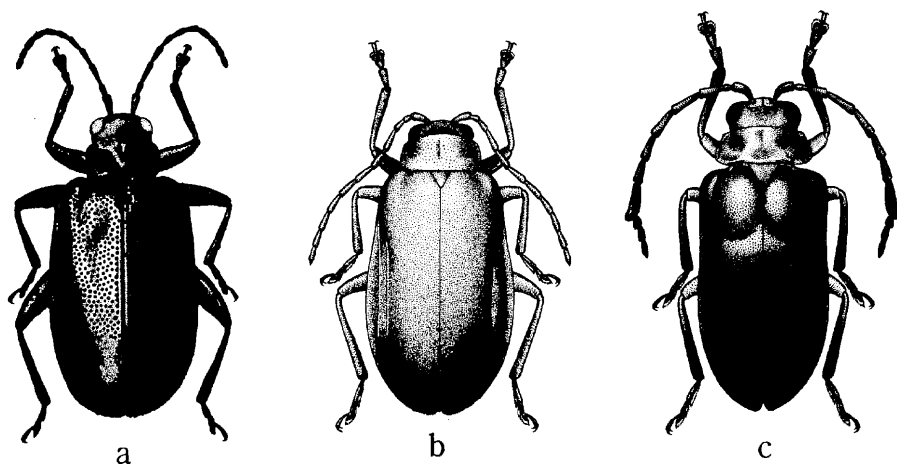


Fig. 8. a, *Galerucella grisescens* (Joannis) ; b, *Pyrrhalta unicastata* (Pic) ; c, *Clitena sinensis* (Fairmaire).

***Pyrrhalta unicostata* (Pic), new combination** Fig. 8b

Galerucella unicostata Pic, 1937, Mél. Exot. Ent., 69 : 20 (Tonkin ; PARIS).

Pyrrhalta hainanensis Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B : 440, 450, figs. (Hainan ; CAS).

New synonym.

Distribution : Thailand, Cambodia, Laos, Vietnam, Hainan.

Material examined. THAILAND : Banna, Chawang, nr. Nabon, 70 m, 1 ex., 5. ix. 1958, J. L. Gressitt ; Kao Yai, 1 ex., 11. iv. 1963, Native collr (BISHOP) ; Kao Yai Nat. Park, 7 exs., 6. vi. 1965, K. Morimoto & Y. Miyatake (KU). CAMBODIA : Kiri Rom, 700 m, 1 ex., 31. iii.-7. iv. 1961, N. R. Spencer (BISHOP). LAOS : Vientiane Prov., Ban Van Eue, 1 ex., 15-31. v. 1965, Native collr ; Khammouane Prov., Phon Tiou, 1 ex., 15-31. v. 1965, Native collr ; Khammouane Prov., Phon Tiou, 1 ex., 15-31. v. 1965, Native collr (BISHOP) ; Umgeb. Vientiane, 2 exs., iii-vi. 1963 ; Umgeb. Vanky, 2 exs., 1963 (MUNCHEN).

Genus *Galerucella* Crotch

Galerucella Crotch, 1873, Proc. Acad. Sci. Philad., 1873 : 55 (type : *Chrysomela nymphaea* Linnaeus ; Europe).-Maulik, 1936, Fauna India, Galeruc. : 214.—Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B : 392, 468.—Kimoto, 1964, J. Fac. Agr. Kyushu Univ., 13(2) : **293**.

Hydrogaleruca Laboissière, 1922, Rev. Zool. Afr., 10 : 32.

Galerucella (*Hydrogaleruca*) : Ogloblin, 1936, Fauna USSR, 26, 1 : 119.—Chûjô, 1962, Phil. J. Sci., 91 (1-Z) : **39**.

***Galerucella grisescens* (Joannis)** Fig. 8a

Galeruca grisescens Joann., 1866, Abeille, 3 : 98 (Sicily).

Galeruca vittaticollis Baly, 1874, Trans. Ent. Soc. London, 1874 : 178 (Nagasaki ; BM).—Chûjô & Kimoto, 1961, Pac. Ins., 3(1) : 165 (= *grisescens*).

Galleruca distincta Baly, 1874, Trans. Ent. Soc. London, 1874 : 178 (Nagasaki ; BM).—Laboissière, 1934, Ann. Soc. Ent. France, 103 : 73 (= *grisescens*).

Galleruca placida Baly, 1878, Cist. Ent., 2 : 381 (Murree, N. India). New **synonym**.

Galerucella placida : Baly 1878, Second Yorkand Mission : 34 (Jhelam Valley).-Allard, 1889, Ann. Soc. Ent. France, ser. 6, 9 : 312 (Pnom-Penh ; var.).-Maulik, 1936, Fauna India, Galeruc. : 217 (India, Burma).-Kimoto, 1979, Ent. Basiliensia, 4 : 466, fig. (Nepal, India).-Kimoto & Takizawa, 1983, Bull. Natn. Sci. Mus., Tokyo, ser. A, 9(2) : 86 (Nepal).

Galerucella rugosa Jacoby, 1884, Notes Leyden Mus., 6 : 65 (Sumatra).-Maulik, 1936, Fauna India, Galeruc. : 218 (? = *placida*). **New synonym**.

Lochmaea* (*Galerucella*) *rugosa : Jacoby, 1889, Ann. Mus. Civ. Genova, 27 : 216 (Burma).

Galerucella distincta : Kolbe, 1886, Archiv Naturg., 52(1) : 230 (Seoul, Korea).

Galerucella sagittariae var. ***distincta*** : Weise, 1889, Horae Soc. Ent. Ross., 23 : 569 (Szetschuan).

Lochmaea rugosa : Duvivier, 1891, C. R. Soc. Ent. Belg., 35 : 150 (Indo-Malaisie).

Galerucella distincta var. ***jureceki*** Pic, 1921, Échange, 37 : 2 (China).

Galerucella angulosa Pic, 1928, Mel. Exot. Ent., 52 : 30 (Annam ; PARIS). New synonym.

Galerucella (*Hydrogaleruca*) ***grisescens*** : Laboissière, 1934, Ann. Soc. Ent. France, 103 : 69, 73 (Europe, Siberia, Japan).-Ogloblin, 1936, Fauna USSR, 26, 1 : 120 (Europe, Siberia, China, Japan).

Galerucella (*Hydrogaleruca*) ***distincta*** : Chûjô, 1941, Trans. Nat. Hist. Soc. Formosa, 31(211) : 159

(Korea) ; 1942, Mushi, Fukuoka, 14(2): 61 (Kwangtung).

Galerucella reducta Chen, 1942, Notes d'Ent. Chinoise, 9 : 19 (Kwangsi ; Yunnan ; Sikang).

-Gressitt & Kimoto, 1961, Pac. Ins. Mon., 1B : 468 (= *griseescens*).

Hydrogaleruca distincta yakushimana Nakane, 1958, Sci. Rep. Saikyo Univ., 2(5): A308 (Japan : Yakushima ; NSM).

Lochmaea (Tricholochmaea) placida: Bechyné, 1961, Beitr. Naturh. Forsh. S. W. Deutschl., 19(3): 255 (Afghanistan).-Lopatin, 1963, Ann. Hist.-Nat. Mus. Natl. Hungarici, Zool., 55 : 355 (fauna).

Galerucella griseescens distincta: Chûjô, 1962, Phil. J. Sci., 91(1-2): 40 (Formosa).

Galerucella griseescens: Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B : 468 (Siberia, China, Hainan, Vietnam).-Kimoto, 1964, J. Fac. Agr. Kyushu Univ., 13(2) : 294.

Distribution : Europe, Siberia, Sachalin, Korea, China, Hainan, Taiwan, Korea, Japan, Ryukyu Is., Afghanistan, India, Nepal, Burma, Thailand, Laos, Vietnam, Sumatra, Java.

Suboval, dorsal surface covered by fine hairs and disc of pronotum with a large glabrous space at middle ; reddish brown, in some specimen elytron with an ill-defined submarginal pitchy stripe, which is starting from humerus and running towards apex ; antenna black with basal segments paler ; vertex and meso- and metathorax, in some cases some parts of abdomen also, blackish ; length 3.7-5.2 mm.

Material examined. THAILAND : Chiangmai, Fang, 500 m, 2 exs., 12. iv. 1958, Native collr (BISHOP) ; Fang, 1 ex., 14. vi. 1965, Y. Miyatake ; Mae Klang Water Fall, nr. Chom Thong, 1 ex., 11. vi. 1965, Y. Miyatake (KU). LAOS : Vientiane Prov., Namgueng River, Phou Kou Khouei, 100 m, 4 exs., 10. iv. 1965, J. L. Gressitt ; Vientiane Prov., Ban Van Eue, 2 exs., 15. vii. 1965, Native collr (BISHOP). VIETNAM : Dalat, 6 km S., 1,400-1,500 m, 1 ex., 9. vi.-7. vii. 1961, N. R. Spencer (BISHOP).

Genus **Sastracella** Jacoby

Sastracella Jacoby, 1899, Stett. Ent. Ztg., 60 : 294 (type : *Sastra fulvicornis* Jacoby ; Burma).
—Weise, 1902, Tijdschr. Ent., 65 : 67 (as subgenus of *Sastra*).

KEY TO SPECIES OF *Sastracella*

- 1 Generally bluish, elytron subparallel-sided2
- Entirely yellowish brown, elytron rounded laterally ; length 8.3-10.0 mm *laosensis*
- 2(1) Antenna entirely blackish ; violaceous blue, abdomen yellowish brown ; length 7.5-9.0 mm *abdominalis*
- Antenna generally yellowish brown ; dorsal surfaces violaceous blue, ventral surfaces piceous ; length 7.4 mm (Jacoby, 1892 ; *Sastra* ; Burma ; GENOVA) *fulvicornis*

***Sastracella abdominalis* n. sp.** Fig. 9b

Generally violaceous blue, antenna entirely pitchy black, abdomen yellowish brown.

Head with vertex closely covered by strong punctures and fine pubescence, and with a longitudinal median furrow, slightly depressed at front ; frontal tubercle distinct, finely granulate, subtriangular, contiguous, anterior angle slightly inserted between antennal insertions ; interantennal space distinctly raised. Antenna slender, nearly 3/4 as long as body length, and in preapical segments nearly three times as long as wide ; first segment robust, somewhat club-shaped, second shortest, nearly 2/3 as long as first, third nearly 2 3/4 times as long as second, fourth 4/5 as long as third, fourth to sixth

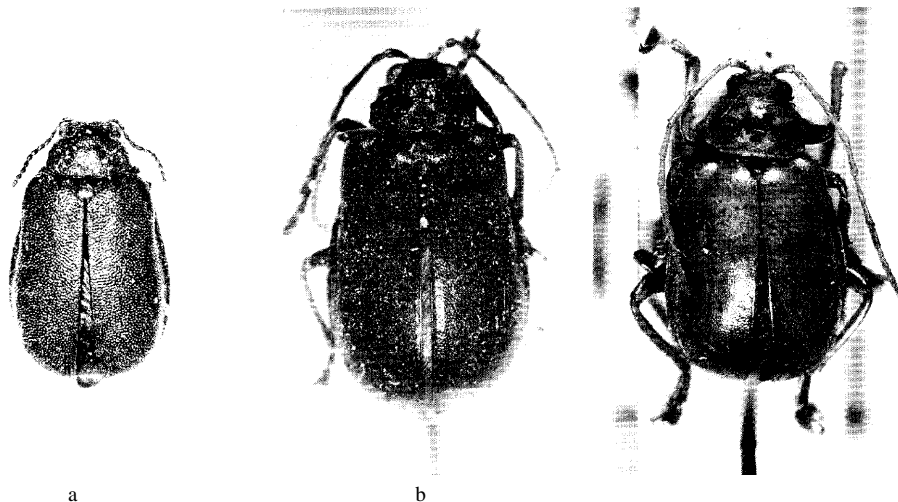


Fig. 9. a, *Pyrrhalta limbata* (Laboissière); b, *Sastracella abdominalis* n. sp.; c, *S. laosensis* n. sp.

subequal to each other in length and shape, seventh slightly shorter than sixth, eighth subequal to seventh in length and shape, ninth slightly shorter than eighth, tenth subequal to ninth in length and shape, eleventh $1 \frac{2}{5}$ times as long as tenth and its apex pointed. Pronotum transverse, nearly twice as long as wide, anterior margin slightly curved posteriorly, lateral margin rounded, and with a slight projection at $\frac{1}{3}$ from anterior margin, and narrowed anteriorly and posteriorly, basal margin widely rounded posteriorly and slightly concaved before scutellum, anterior and posterior corners distinctly produced laterally and each with a setigerous pore; surface closely impressed by strong punctures and covered with fine pubescence, and with distinct an anterior and a posterior median depressions and a pair of deep depressions laterally. Scutellum convex, closely covered by strong punctures and fine pubescence, subtriangular, its apex rounded. Elytron with lateral margin subparallel-sided, rounded at apex, distinctly and closely punctate, and closely covered by fine pubescence.

Length : 7.5-9.0 mm.

Holotype (MUNCHEN) : LAOS : Umgeb. Vientiane, iii-vi. 1963. Paratypes : LAOS : 11 exs., same data as the holotype (MUNCHEN, KIMOTO) ; Ban Van Heue, 20 km E. of Phou-kow-kuei, 3 exs., 1-15. v. 1965, J. A. Rondon, 1 ex., 15-31. iv. 1965, Native collr (BISHOP). VIETNAM : Kontum, N. of Pleiku, 550 m, 1 ex., 13. v. 1960, S. Quate ; 25 km SW. of Pleiku, 400 m, 1 ex., 12. v. 1960, L. W. Quate ; 45 km W. of Dalat, 850 m, 1 ex., L. W. Quate (BISHOP).

This new species closely resembles *Sastracella fulvicornis* (Jacoby) but is separable in having the antenna entirely blackish.

***Sastracella laosensis* n. sp. Fig. 9c**

Entirely yellowish brown.

Head with vertex closely covered by strong punctures and fine pubescence, and with a longitudinal median furrow, slightly depressed at front; frontal tubercle subquadrate, contiguous, anterior angle slightly inserted between antennal insertions, distinctly raised, somewhat wrinkled, impressed

by fine punctures. Antenna slender, nearly $2/3$ as long as body length, and in preapical segments nearly three times as long as wide; first segment robust, somewhat club-shaped, second shortest, nearly $2/5$ as long as first, third nearly $2\ 3/4$ times as long as second, fourth nearly $4/5$ as long as third, fifth nearly $3/4$ as long as fourth, sixth subequal to fifth in length and shape, seventh slightly shorter than sixth, eighth subequal to seventh in length and shape, ninth slightly shorter than eighth, tenth subequal to eighth in length and shape, eleventh subequal to eighth in length and its apex pointed. Pronotum transverse, nearly twice as long as wide, anterior margin slightly curved posteriorly, lateral margin rounded, widest almost at middle, and narrowed anteriorly and posteriorly ; basal margin widely rounded posteriorly, anterior and posterior corners distinctly produced laterally and each with a setigerous pore ; surface closely impressed by strong punctures and fine pubescence, and with a shallow subbasal depression and a pair of deep depressions laterally. Scutellum convex, covered by strong punctures and pubescence, subtriangular, and its apex truncate. Elytron with lateral margin rounded, distinctly and closely punctate, and closely covered by fine pubescence.

Length 8.3-10.0 mm.

Holotype (BISHOP) : LAOS : Sayaboury Prov., Sayaboury, 15. iv. 1965, J. L. Gressitt. Paratopotypes : 11 exs., same data as the holotype (BISHOP, KIMOTO). Paratypes : LAOS : Vientiane Prov., Ban Van Eue, 1 ex., 11. iv. 1965, 1 ex., 13. iv. 1965, J. L. Gressitt, 1 ex., 31. v. 1966, 1 ex., 15. iv. 1966, 1 ex., 15. vi. 1966, 5 exs., 30. iv. 1967, 3 exs., 15. v. 1966, Native collr (BISHOP) ; Umgeb. Vientiane, 27 exs., iii.-vi. 1963 ; Umgeb. Pakse, 1 ex., 1963 (MUNCHEN).

This new species resembles *Sastracella harmandi* Laboissière, from Sikkim, but differs in having elytron with the lateral margin rounded. Also, this new species somewhat resembles *Sastroides indicus* Jacoby, but differs in having the pronotum distinctly covered with fine hairs and elytron without any transverse depression near the base.

Genus **Clitena** Baly

Clitena Baly, 1864, Trans. Ent. Soc. London, ser. 3, 2 : 229 (type : *Clitena limbata* Baly ; monobasic ; Siam).-Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B : 392, 418.

Mesodonta Baly, 1865, Ent. Monthly Mag., 2 : 99 (type : *Clitena Zimbata* Baly ; Siam).-Chapuis, 1875, Gen. Col., 11 : 198, 205.

KEY TO SPECIES OF *Clitena*

Generally yellowish to reddish brown, elytron entirely violaceous to blackish blue ; tibiae, tarsi and preapical segments of antenna blackish ; in male eighth antennal segment enlarged, produced ectoapically, and ninth to eleventh considerably shortened ; length 11.0 mm (Fairmaire, 1888 ; *Agetocera* ; China ; PARIS ; Fig. 8c) *sinensis*
 Generally dark yellowish brown, pronotum with a pair of blackish markings, elytron black with margins narrowly brownish ; vertex with a blackish marking at middle ; antenna and legs mostly blackish ; in male eighth antennal segment not enlarged ; length 10.0-12.0 mm *limbata*

Clitena limbata Baly Fig. 10a

Clitena limbata Baly, 1864, Trans. Ent. Soc. London, ser. 3, 2 : 230 (Pachybouri, Siam ; BM). -Maulik, 1936, Fauna India, Galeruc. : 2'29 (Burma, Siam, Tonkin, Laos, Borneo).-Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B : 418 (China).

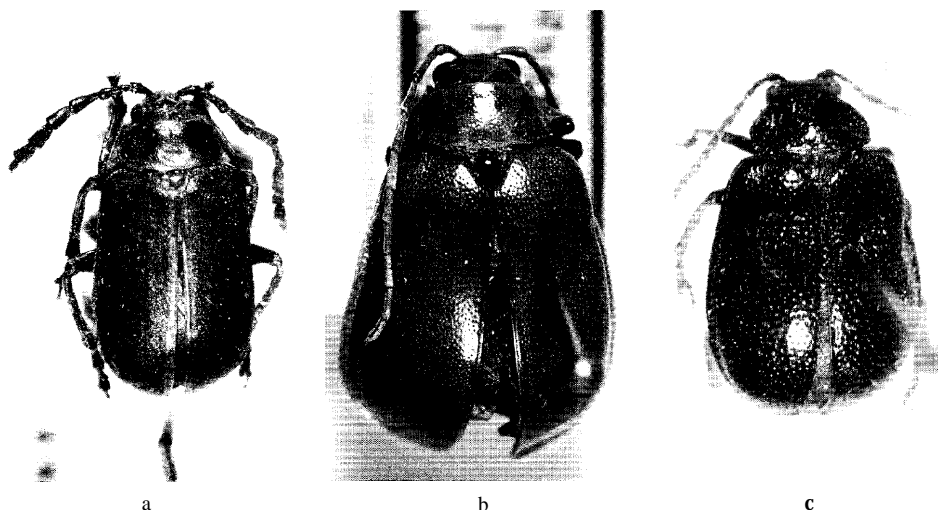


Fig. 10. a, *Clitena limbata* Baly ; b, *Doryxena geniculata* Baly ; c, *Clitenella punctata* Laboissière.

Mesodonta limbata : Baly, 1865, Ent. Monthly Mag., 2 : 99 (as a type of *Mesodonta*).

Hymenesia limbata Jacoby, 1896, Ann. Soc. Ent. Belg., 40 : 297 (Burma).-Maulik, 1936, Fauna India, Galeruc. : 229 (= *Clitena Zimbata* Baly).

Clitena cincta Laboissière, 1927, Ann. Soc. Ent. France, 96 : 51, fig. (Laos; BRUXELLES).
-Maulik, 1936, Fauna India, Galeruc. : 229 (= *Clitena limbata* Baly).-Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B : 418 (= *Clitena limbata* Baly).

Distribution : Burma, Thailand, Laos, Vietnam, Borneo.

Material examined. THAILAND: Phu Kae, 1 ex., 15. iv. 1964, 1 ex., 6. vii. 1963, Native collr ; Pakchong, 1 ex., 20. vii. 1963, 1 ex., 21. xi. 1963, Native collr ; Bangkhen, 1 ex., 25. vii. 1968, Native collr ; Songkla, 1 ex., 15. iii. 1963, Native collr ; Srisamrong, 1 ex., 14. x. 1963 ; Khao Yai, 1 ex., 18. viii. 1963, Native collr ; Kanchanaburi, 1 ex., 10. viii. 1963, Native collr (BISHOP) ; Tak, 7 exs., 31. v. 1959, 2 exs., 21. vi. 1959, 2 exs., 25. v. 1959, 1 ex., 29. v. 1959, 2 exs., 27. v. 1959 ; Saraburi, 2 exs., 20. vii. 1956 ; Bangkok, Dhonburi, 1 ex., 8. ix. 1959, 1 ex., 5. ix. 1959, Nakhon Ratchasima, 1 ex., 9. ix. 1959, 1 ex., 4. x. 1959, 2 exs., 6. ix. 1959, Prachuab Khiri Khan, 4 exs., v. 1956 ; Nakhon Ratchasima, 1 ex., 20. vi. 1958, 1 ex., 15. iv. 1958 (BANGKHEN). LAOS : Umgeb. Vientiane, 7 exs., iii-vi. 1963 (MUN-CHEN).

Genus **Doryxena** Baly

Doryxena Baly, 1861, J. Ent., 1 : 202 (type : *Galleruca grossa* Hope ; Assam).-Chapuis, 1875, Gen. Col., 11 : 197, 207.-Maulik, 1936, Fauna India, Galeruc. : 121.

Doryxena geniculata Baly Fig. 10b

Doryxena geniculata Baly, 1879, Cist. Ent., 2 : 451 (Assam ; BM).-Maulik, 1936, Fauna India, Galeruc. : 123, fig. (Assam, Manipur).-Laboissière, 1932, Bull. Mus. Hist. Nat., Paris, ser. 2, 4 : 962 (Sikkim).

Distribution : India, "Indo-China".

Suboval, dorsal surfaces glabrous, strongly and rather closely punctate, lateral and apical margins of elytron broad, anterior process of metasternum produced anteriorly ; yellowish to dark reddish brown, scutellum and apex of femora and base of tibiae blackish ; length 16.0 mm.

Material examined. "Indo-China", Hanglang, Pakka, 2 exs. (BASEL).

Genus **Clitenella** Laboissière

Calloplistria Chevrolat, 1837, in Dejean, Cat. Col., ed. 3: 402 (nec Huebner, 1821) (type: *Galeruca fulminans* Faldermann ; China ; monobasic).-Hincks, 1949, Ann. Mag. Nat. Hist., ser. 12, 2 : 619.

Clitenella Laboissière, 1927, Ann. Soc. Ent. France, 96 : 53 (type : *Galeruca fulminans* Faldermann ; China).-Ogloblin, 1936, Fauna USSR, 26, 1 : 135, 392.—Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B : 419.

KEY TO SPECIES OF *Clitenella*

- 1 Antenna and legs generally bluish black ; generally golden green, elytron with basal and postmedian markings reddish, and abdomen reddish to yellowish brown ; length 6.8-8.7 mm *fulminans*
- Antenna and legs generally yellowish brown, in some specimen femora bluish black ; violaceous blue ; abdomen reddish to yellowish brown ; 6.5 mm **punctata**

Clitenella fulminans (Faldermann)

Galeruca fulminans Fald., 1935, Mém. Acad. Petersb., 2 : 438, pi. 5, fig. 8 (China).

Clitena jilminans : Jacobson, 1911, Käfer Russl., 9, pl. 59, fig. 2.

Clitenella fulminans : Laboissière, 1927, Ann. Soc. Ent. France, 96 : 54 (Tonkin : Hanoi, Chine, Formosa) ; 1929, *ibid.*, 98 : 269 (Tonkin).-Ogloblin, 1936, Fauna USSR, 26, 1 : 136, 393 (China, Tonkin, Formosa).—Chûjô, 1962, Phil. J. Sci., 91(1-2) : 212 (Formosa).-Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B : 419 (China).

Distribution : Vietnam, China, Taiwan.

No additional material was examined.

Clitenella punctata Laboissière Fig. 10c

Clitenella punctata Lab., 1927, Ann. Soc. Ent. France, 96 : 55 (Tonkin ; BRUXELLES).

Distribution : Thailand, Vietnam.

Material examined. THAILAND : Khon Kaen, 1 ex., 24. vii. 1980, 1 ex., 4. viii. 1980, 1 ex., 8. x. 1981, S. Azuma (RU).

Genus **Periclitena** Weise

Clitena Clark, 1865, Ann. Mag. Nat. Hist., ser. 3, 16 : 257, 259 (nec Baly).—Chapuis, 1875, Gen. Col., 11 : 198, 203.

Periclitena Weise, 1902, Archiv Naturg., 63 : 157 (type : *Galleruca vigorsi* Hope ; Nepal).-Maulik, 1936, Fauna India, Galeruc. : 210.—Ogloblin, 1936, Fauna USSR, 26, 1 : 133, 368.—Hincks, 1949,

Ann. Mag. Nat. Hist., ser. 12, 2 : 619.—Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B : 392, 420.

KEY TO SPECIES OF *Pericliten*

- Pronotum metallic2
- Pronotum reddish brown; elytron entirely violaceous to blackish blue ; generally reddish brown, most of tibiae and tarsi and preapical antennal segments blackish ; length 10.0-13.0 mm *tonkinensis*
- 2(In male eighth antennal segment enlarged, produced ectoapically and concaved beneath ; in female ninth to eleventh not greatly shortened and distinctly longer than wide ; generally violaceous blue, elytron with or without basal and subapical markings greenish; length 8.7—9.6 mm *cyanea*
- In male eighth antennal segment normal ; in female ninth to eleventh considerably shortened ; generally greenish, violaceous, bluish, blackish, elytron with or without basal and subapical markings somewhat reddish or greenish ; length 8.7-11.0 mm *vigorsi*

Pericliten cyanea (Clark) Fig. 1b

Cliten cyanea Clark, 1865, Ann. Mag. Nat. Hist., ser. 3, 16 : 259 (Java).—Jacoby, 1889, Ann. Mus. Civ. Genova, 27 : 208 (Burma).—Allard, 1891, Nourv. Arch. Mus. Paris, ser. 3, 3 : 231 (Luang Prabang) ; 1904, Miss. Pavie Indo-Chine, 3 : 160 (Laos, Luang-Prabang à Theng).

Pericliten cyanea : Maulik, 1936, Fauna India, Galeruc. : 213 (key).—Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B : 421 (Hainan).

Distribution : Burma, Thailand, Laos, Hainan, Java.

Material examined. LAOS : Savannakhet Prov., Savannakhet, 2 exs., 5. vii. 1965, Native collr ; Borikhane Prov., Pakkading, 1 ex., 15. ix. 1965, J. L. Gressitt ; Khammouane Prov., Phon Tiou, 2 exs., 18. viii. 1965, J. A. Rondon, 1 ex., 30. xi. 1966, Native collr (BISHOP) ; Umgeb. Vientiane, 1 ex., iii.-vi. 1963 ; Umgeb. Pakse, 1 ex., 1963 (MUNCHEN).

Pericliten tonkinensis Laboissière, resurrected from synonymy

Pwicliten tankinensis Lab., 1929, Ann. Soc. Ent. France, 98 : 266 (Tonkin, Kweichow ; PARIS).
Distribution : Vietnam, S. China.

Gressitt & Kimoto (1963) treated this species as a synonym of *Agetocera sinensis* (Fairmaire). The latter is treated by Laboissière (1929) as a member of *Pericliten*. However, this species should be treated as a member of *Cliten* in having pronotum sparsely covered with fine hairs.

Material examined. VIETNAM : Annam, 5 exs., 1927 (BASEL).

Pericliten vigorsi (Hope)

Galleruca vigorsi Hope, 1831, in Gray, 2001. Miscell. : 29 (Nepal ; BM).

Galleruca coerulans Hope, 1831, *ibid.* : 29 (Nepal ; BM).

Clitea melancholica Baly, 1864, Trans. Ent. Soc. London, ser. 3, 2 : 231 (Siam, Laos ; BM). New synonym.

Cliten igneipennis Baly, 1865, Ent. Monthly Mag., 2 : 99 (India ; BM).—Allard, 1891, Nourv. Arch. Mus. Paris, ser. 3, 3 : 231 (Luang-Prabang) ; 1904, Miss. Pavie Indo-Chine, 3 : 160 (Laos, Luang-Prabang à Theng).

Periclitena vigorsi var. *viridissima* Weise, 1922, Tijdschr. Ent., 65 : 66 (Bengal).

Periclitena vigorsi var. *fulgida* Laboissière, 1927, Ann. Soc. Ent. France, 96 : 63 (N. Annam ; PARIS).

Periclitena vigorsi : Maulik, 1936, Fauna India, Galeruc. : 211 (India, Sikkim, Assam, Burma, Penang, Tonkin).—Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B : 420, 422 (Hainan).—Kimoto, 1970, Spec. Bull. Lep. Soc. Japan, 4 : 170 (Nepal).—Kimoto & Takizawa, 1972, Kontyû, Tokyo, 40(4) : 216 (Nepal).—Kimoto, 1978, Ent. Basiliensia, 4 : 468 (Nepal, Meghallaya).

Distribution : India, Burma, Nepal, Thailand, Laos, Vietnam, Malaya, Hainan.

Material examined. THAILAND : Chiangmai Prov., Chiangdao, 450 m, 4 exs., 5-11. iv. 1958, T. C. Maa (BISHOP). LAOS : Sayaboury Prov., Sayaboury, 3 exs., 13. iv. 1966, Native collr (BISHOP) ; Umgeb. Vientiane, 1 ex., iii-vi. 1963 ; Umgeb. Pakse, 1 ex., 1964 ; Umgeb. Vanky, 1 ex., 1963 ; Umgeb. Paklay, 1 ex., 1963 (MUNCHEN).

Genus **Sastroides** Jacoby

Sastroides Jac., 1884, Notes Leyd. Mus., 6 : 281 (type : *Sastroides bimaculata* Jacoby ; Sumatra).

KEY TO SPECIES OF *Sastroides*

- 1 Pronotum with margins not distinctly raised2
 Pronotum with margins in large part strongly raised, surface shiny, feebly punctured ;
 generally violaceous to greenish blue, antenna and abdomen largely yellowish brown ;
 length 8.0-10.0 mm *violaceus*
- 2(1) Elytron entirely brownish 3
 Elytron violaceous blue to blackish blue ; generally yellowish to reddish brown, apical
 segments of antenna, tarsi and apical half of tibiae blackish ; in dark colored specimen
 dorsal surfaces and antenna, in some specimens meso- and metathorax also, generally
 blackish ; length 8.3-10.0 mm *purpurascens*
- 3(2) Lateral margin of pronotum straight or feebly rounded4.
 Lateral margin of pronotum angulated anterior to middle 5
- 4(3) Pronotum 2 1/4 times as wide as long, sides nearly straight and slightly narrowed
 posteriorly, and its surface impressed by a pair of shallow transverse furrows and
 sparsely impressed by distinct punctures ; entirely yellowish brown ; length 6.8-9.3
 mm *pallidiflavus*
 Pronotum 1 2/3 times as wide as long, sides feebly rounded, widest almost at middle,
 and its surface impressed by a pair of deep transverse furrows, and each almost united
 at middle and curved downward laterally, and sparsely impressed by minute punc-
 tures ; entirely yellowish brown ; length 6.5-6.9 mm *dohertyi*
- 5(3) Pronotum distinctly but not rugosely punctate 6
 Pronotum distinctly and rugosely punctate ; generally reddish brown, antenna black-
 ish with basal segments brownish, tibiae and tarsi generally blackish ; length 10.0—
 11.0 mm *birmanicus*
- 6(5) Tibiae brownish 7
 Tibiae and tarsi blackish ; generally yellowish to reddish brown, antenna blackish
 with basal segments brownish ; length 9.0-11.0 mm *tibialis*
- 7(6) Smaller ; elytron without any transverse depression near base ; generally yellowish
 brown ; length 6.8—8.3 mm *lividus*

Larger ; elytron with a slight depression near base ; generally yellowish to reddish brown, in many specimens apical segments of antenna and tarsi blackish ; length 9.0-11.0 mm

indicus

***Sastroides birmanicus* Jacoby Fig. 12b**

Sastroides birmanica Jac., 1889, Ann. Mus. Civ. Genova, 27 : 217 (Burma ; GENOVA).

Sastra birmanica : Maulik, 1936, Fauna India, Galeruc. : 259 (Burma).

Atysa gigantea Maulik, 1936, Fauna India, Galeruc.: 248 (Burma ; BM). New **synonym**.

Sastroides gigantea : Aslam, 1972, J. Nat. Hist., 6 : 501 (genus).

Distribution : Burma, Laos.

Material examined. LAOS : Umgeb. Vientiane, 1 ex., iii.-vi. 1963 ; Umgeb. Vanky, 1 ex., 1964 (MUNCHEN).

***Sastroides dohertyi* (Maulik)**

Sastra dohertyi Maulik, 1936, Fauna India, Galeruc. : 265 (Burma ; GENOVA).

Pseudosastra dohertyi : Aslam, 1972, J. Nat. Hist., 6 : 501 (genus).

Distribution : Burma, Laos.

Material examined. LAOS : Vientiane Prov., Ban Van Eue, 1 ex., 1-15. v. 1965, J. A. Rondon, 1 ex., 15-31. v. 1965, Native collr ; Vientiane Prov., Gi Sion Vill., de Tha Ngone, 2 exs., 10-24. x. 1965, 1 ex., 2. i. 1966, Native collr ; Sayaboury Prov., Sayaboury, 1 ex., 15. iv. 1965, J. L. Gressitt (BISHOP).

***Sastroides indicus* Jacoby**

Sastroides indicus Jac., 1894, Novit. Zool., 1 : 315 (Assam).

Sastra (Sastroides) indica : Weise, 1922, Tijdschr. Ent., 65 : 67 (Tonkin).

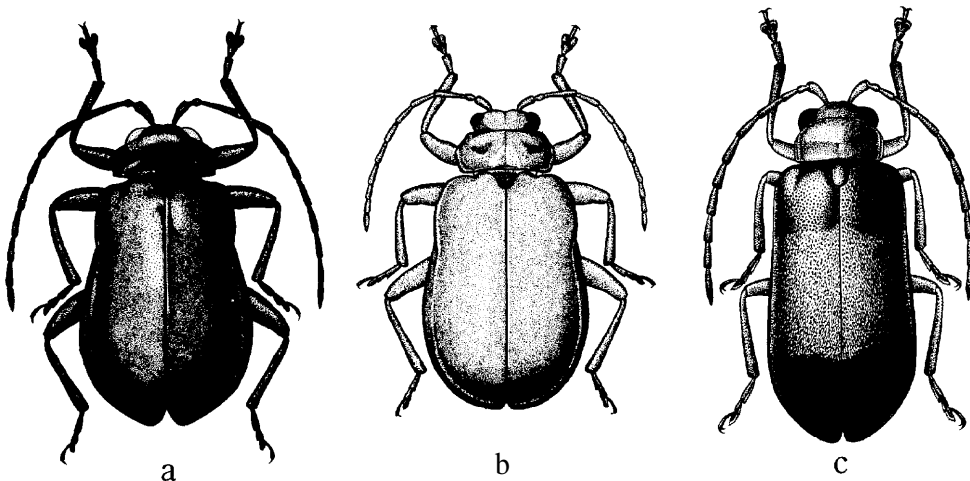


Fig. 11. a, *Sastroides violaceus* (Weise) ; b, *S. lividus* (Laboissière) ; c, *Anadimonia latifasciata* (Gressitt & Kimoto).

Sastra indicus : Maulik, 1936, Fauna India, Galeruc.: 264 (India).-Kimoto, 1979, Ent. Basiliensia, 4 : 468, fig. (Nepal).

Distribution : India, Laos, Vietnam.

I could not trace the type location of this species.

Material examined. LAOS : Vientiane Prov., Ban Van Eue, 2 exs., 12. iv. 1965, 1 ex., 13. iv. 1965, J. L. Gressitt, 1 ex., 15-31. v. 1965, J. A. Rondon, 7 exs., 15-31. iv. 1965, 1 ex., 1-15. v. 1965, 3 exs., 15-31. v. 1965, 1 ex., 15. iv. 1966, 3 exs., 15. v. 1966, 1 ex., 15. vi. 1966, 6 exs., 30. iv. 1967, 9 exs., 15. v. 1967, 1 ex., 31. v. 1967, Native collr ; Borikhane Prov., Pakkading, 1 ex., 15. iv. 1965, J. A. Rondon, 3 exs., 5. iv. 1966, 1 ex., 29. iv. 1966, Native collr ; Sayaboury Prov., Sayaboury, 14 exs., 15. iv. 1965, J. L. Gressitt (BISHOP) ; Umgeb. Vientiane, 4 exs., iii-vi. 1963, Umgeb. Pakse, 4 exs., 1963 ; Umgeb. Paklay, 1 ex., 1963 (MUNCHEN).

Sastroides lividus (Laboissière), new combination Fig. 11b

Galerucella consentanea : Allard, 1889, Ann. Soc. Ent. France, ser. 6, 9 : 312 (Phnom-Penh) ; 1891, Nouv. Arch. Mus. Paris, ser. 3, 3 : 231 (Luang-Prabang) ; 1904, Miss. Pavie Indo-Chine, 3 : 160 (Cambodge).—Laboissière, 1935, Ann. Ass. Nat. Levaloi-Perret, 2 : 143 (= *Sastra livida*).

Sastra* (*Sastroides*) *livida Laboissière, 1935, Ann. Ass. Nat. Levallois-Perret, 21 : 143 (Cambodia ; PARIS).

Sastra mamaya Maulik, 1936, Fauna India, Galeruc. : 257 (Burma, BM). New **synonym**.

Mimastracella brunnea Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B : 411, 412, fig. (Hainan Is. ; CAS). New **synonym**.

Distribution : Burma, Thailand, Cambodia, Laos, Vietnam, Hainan.

Material examined. THAILAND : Chiangmai Prov., Mae Cho, 1 ex., 9. vi. 1965, P. D. Ashlock ; Pangmakampon (Pankanpawng), nr. Fang, 450 m, 1 ex., 16. xi. 1957, J. L. Gressitt (BISHOP) ; Phrae, 2 exs., 2. v. 1938, 1 ex., 20. vi. 1938, 1 ex., 29. v. 1938, 5 exs., 2. vi. 1938, 1 ex., 7. vi. 1938, 1 ex., 8. vi. 1938, 7 exs., 18. vi. 1938 (BANGKHEN). LAOS : Vientiane Prov., Ban Van Eue, 3 exs., 15-31. v. 1965,

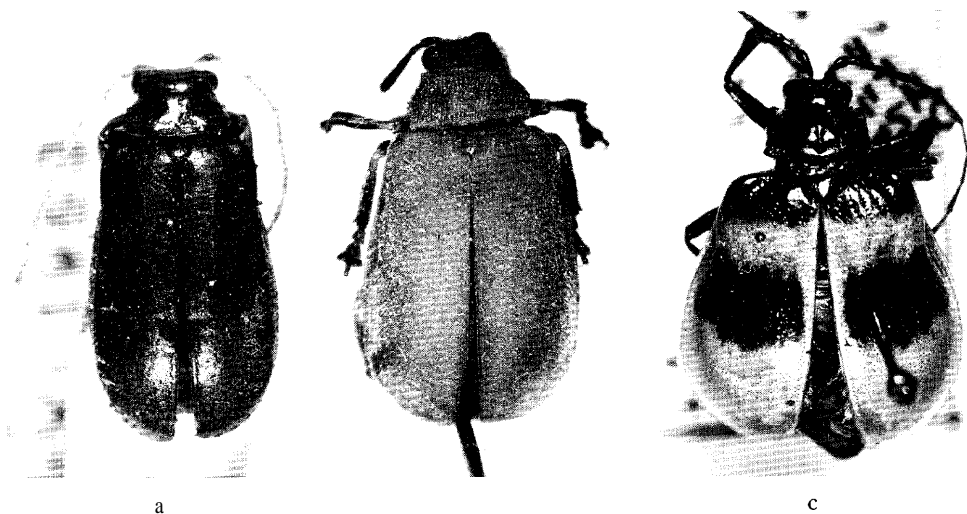


Fig. 12. a, *Sastroides pallidifulvus* n. sp. ; b, *S. birmanicus* Jacoby ; c, *Meristoides keani* Laboissière.

Native collr ; Attopeu Prov., Houei Kong, 1 ex., 31. v. 1965, Native collr ; Khammouane Prov., Phon Tiou, 1 ex., 17. v. 1965, Native collr ; Wapikhamthong Prov., Khong Sedone, 1 ex., 27. ix. 1965, Native collr ; Sayaboury Prov., Sayaboury, 1 ex., 15. iv. 1965, J. L. Gressitt (BISHOP) ; Umgeb. Vientiane, 2 exs., iii-vi. 1963 (MUNCHEN). VIETNAM : Kontum, N. of Pleiku, 550 m, 1 ex., 13. v. 1960, S. Quate (BISHOP).

***Sastroides pallidiflavus* n. sp.** Fig. 12a

Generally yellowish brown.

Head with vertex sparsely covered by large punctures and fine pubescence, and with a longitudinal median furrow, slightly depressed at front, frontal tubercle distinct, transverse, subquadrate, contiguous, surface smooth, shining, impunctate. Antenna slender, nearly $2/3$ as long as body length, and in preapical segments nearly three times as long as wide ; first segment robust, somewhat club-shaped, second shortest, nearly half as long as first, third $2 \frac{1}{3}$ times as long as second, fourth $1 \frac{1}{3}$ times as long as third, fifth slightly shorter than fourth, sixth subequal to fifth in length and shape, seventh slightly shorter than sixth, eighth subequal to seventh in length and shape, ninth slightly shorter than eighth, tenth subequal to ninth in length and shape, eleventh $1 \frac{1}{3}$ times as long as tenth and its apex pointed. Pronotum transverse, nearly $2 \frac{1}{5}$ times as long as wide, anterior margin slightly curved posteriorly, lateral margin almost straight, widest almost at base, and slightly narrowed anteriorly, basal margin widely rounded posteriorly, anterior and posterior corners slightly produced laterally and each with a setigerous pore ; surface glabrous, rather closely impressed by large punctures and with a shallow longitudinal median furrow and a pair of shallow transverse depressions laterally. Scutellum subtriangular, apex rounded, closely covered by fine pubescence. Elytron with lateral margin subparallel-sided, apex rounded, distinctly and closely punctate, and closely covered by fine pubescence.

Length : 6.8-9.3 mm.

Holotype (Type No. 2696, Kyushu Univ.) : THAILAND : Chiangmai Prov., Doi Suthep, 1,000 m, 19. vi. 1965, K. Morimoto. Paratopotype: 1 ex., same data as the holotype (KU). Paratypes: THAILAND : Chiangmai Prov., Doi Suthep, 1,000 m, 2 exs., 12. vi. 1965, K. Morimoto & Y. Miyatake ; Doi Suthep, Takeo, 800 m, 1 ex., 10. vi. 1965, K. Morimoto (KU) ; Chiangmai Prov., Doi Suthep, 1,000 m, 2 exs., 12. vi. 1965, P. D. Ashlock (BISHOP). LAOS : Khammouane Prov., Phon Tiou, 1 ex., 17. v. 1965, 1 ex., 11. ix. 1965, Native collr ; Muong Sing, NW of Luang Prabang, 650 m, 3 exs., 6-10. vi. 1960, L. W. Quate (BISHOP) ; Umgeb. Vientiane, 1 ex., iii-vi. 1963 ; Umgeb. Paklay, 2 exs., 1963 (MUNCHEN). VIETNAM : Annam, 5 exs., 1927 (BASEL).

This new species somewhat resembles *Sastroides dohertyi* (Maulik), but differs in having pronotum much wider and the lateral margin nearly straight.

***Sastroides purpurascens* (Hope)**

Galleruca purpurascens Hope, 1831, in Gray, 2001. Misc. : 29 (Nepal ; BM).

Haplosynx sublaevicollis Jacoby, 1889, Ann. Mus. Civ. Genova, 27 : 218 (Burma ; BM).-Maulik, 1936, Fauna India, Galeruc. : 267 (= *purpurascens*).

Sastroides purpurascens: Bryant, 1923, Ann. Mag. Nat. Hist., ser. 9, 12 : 146 (*Gastroides* ; error) ; 1937, *ibid.*, ser. 10, 20 : 101.—Kimoto, 1979, Ent. Basiliensia, 4 : 469 (Nepal).-Shute, 1983, Bull. Br. Mus. Nat. Hist. (Ent.), 46(3) : 256 (India).

Sastra acutipennis Laboissière, 1932, Bull. Mus. Hist. Nat., Paris, ser. 2, 4 : 960 (Sikkim ; PARIS).—Kimoto, 1979, Ent. Basiliensia, 4 : 461 (= *purpurascens*).—Shute, 1983, Bull. Br. Mus. Nat. Hist.

(Ent.), 46(3): 256 (Sikkim).

Sastra purpurascens: Maulik, 1936, Fauna India, Galeruc. : 267 (Nepal, Burma).-Kimoto, 1970, Spec. Bull. Lep. Soc. Japan, 4 : 170 (Nepal).

Distribution : Nepal, Burma, Thailand, Laos.

Material examined. THAILAND : Chiangmai Prov., Doi Suthep, 1,000 m, 1 ex., 12. vi. 1965, Y. Miyatake (KU). LAOS : Vientiane Prov., Ban Van Eue, 2 exs., 15-31. iv. 1965, 1 ex., 15-31. v. 1966, 1 ex., 15. v. 1967, 1 ex., 30. v. 1967, Native collr (BISHOP) ; Umgeb. Vientiane, 4 exs., iii-vi. 1963 ; Umgeb. Paklay, 3 exs., 1963 (MUNCHEN).

Sastroides tibialis Jacoby

Sastroides tibialis Jac., 1900, Mém. Soc. Ent. Belg., 7 : 131 (India).

Sastra tibialis: Maulik, 1936, Fauna India, Galeruc. : 264 (India, Burma, Malaya).

Distribution : India, Burma, Laos, Vietnam, Malaya.

Material examined. LAOS : Vientiane Prov., Ban Van Eue, 1 ex., 15. v. 1965, 1 ex., 30. vi. 1966, 1 ex., 15. viii. 1966, 1 ex., 1-15. ix. 1967, Native collr (BISHOP). VIETNAM : Ban Me Thuot, 500 m, 1 ex., 16-18. v. 1960, S. Quate (BISHOP).

Sastroides violaceus (Weise), new combination Fig. 11a

Sastra violacea Weise, 1922, Tijdschr. Ent., 65 : 66 (Fokien ; Tonkin : Montes Mauson ; STOCKHOLM).

Mimastracella violacea: Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B: 412, 414 (China).

Distribution : Laos, Vietnam, China.

Material examined, LAOS : Vientiane Prov., Ban Van Eue, 1 ex., 15. v. 1965, 1 ex., 29. iv. 1966, Native collr, 7 exs., 1-15. v. 1965, J.A. Rondon (BISHOP).

Genus **Meristoides** Laboissière

Meristoides Lab., 1929, Rev. Chil. Hist. Nat., 33 : 289 (type : *Merista touzalini* Laboissière ; Yunnan).-Ogloblin, 1936, Fauna USSR, 26, 1 : 334, 375.—Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B : 393, 554.

Meristoides keani Laboissière Fig. 12c

Meristoides keani Lab., 1929, Rev. Chil. Hist. Nat., 33 : 292 (Siam ; HAMBURG).

Distribution : Thailand.

Antenna filiform ; pronotum subquadrate, nearly impunctate medianly, and with a lateral and medio-basal depressions ; elytron wider than pronotum at base, and its surface confusedly and not closely impressed by fine punctures ; generally blackish violaceous, elytron ochraceous with basal and median bands violaceous ; abdomen ochraceous ; length 12.0 mm.

Material examined. THAILAND : "Siam", 2 exs. (BANGKHEN).

Genus **Anadimonía** Ogloblin

Anadimonía Ogl., 1936, Fauna USSR, 26, 1: 128, 391 (type: *Anadimonía potanini* Ogloblin; China ; monobasic).-Wilcox & Seeno, 1982, Entomography, 1 : 110.

Trichocerophysa Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B : 392, 471 (type : *Trichocerophysa latifasciata* Gressitt & Kimoto ; SW. China).

***Anadimonic:latifasciata* (Gressitt & Kimoto), new combination** Fig 11c

Trichocerophysa latifasciata Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B : 472, fig. (SW. China : Kweichow ; FREY).

Triochocephysa hainana Gressitt & Kimoto, 1963, *ibid.*, 472, 473 (Hainan ; CAS).-Kimoto, 1969, Esakia, Kyushu Univ., 7 : 36 (Taiwan). New **synonym**.

Distribution : Vietnam, S. China, Hainan, Taiwan.

Oblong ; elytron subparallel-sided and closely covered by fine hairs ; head, pro- and mesothorax yellowish brown ; ventral surfaces of metathorax and abdomen black ; elytron blackish with transverse band yellowish brown, in most dark colored specimen, elytron entirely blackish ; antenna pitchy black with anterior femur yellowish brown ; length 4.3-4.8 mm.

Material examined. VIETNAM : Fyan, 900-1,000 m, 2 exs., 11. vii.-9. viii. 1961, N. R. Spencer (BISHOP).

Genus *Oides* Weber

Oides Weber, 1801, Obs. Ent. : 26 (type : *Chrysomela bipunctata* Fabricius= *Oides andrewesi* Jacoby ; Burma).-Maulik, 1936, Fauna India, Galeruc. : 105.—Ogloblin, 1936, Fauna USSR, 26, 1 : 145, 395.—Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B : 392, 474.

Adorium Fabricius, 1801, Syst. Ent., 1 : 409 (type : *Chrysomela bipunctata* Fabricius= *Oides andrewesi* Jacoby ; Burma).-Chapuis, 1875, Gen. Col., 11 : 156.

Ochræa Chevrolat, 1837, in Dejean, Cat. Col., ed. 3 : 399 (type : *Adorium flavum* Olivier ; India ; monobasic).

Rhombopalpa Chevrolat, 1837, *ibid.* : 399 (type : *Adorium decempunctata* Billberg ; China ; monobasic).

Boisduvallia Montrouzier, 1855, Ann. Soc. Agr. Lyon, 7 : 72.

Botanoctona Fairmaire, 1877, Petites Nouvelles Ent., 2(185) : 185.

Allard (1891, Nouv. Arch. Mus. Paris, ser. 3, 3 : 230, from Luang Prabang, and 1904, Miss. Pavie Indo-chine, 3 : 159 from Cambodge) recorded *Oides concolor* (Fabricius) from Indo-China. According to Vachon (1980), this species distributes only in Africa. This species is not included in the text.

KEY TO SPECIES OF *Oides*

- 1 Elytron with discal spots or area of black or metallic 2
Elytron without distinct black or metallic markings 8
- 2(1) Elytral disc with a broad discal stripe or area extending most of elytral length 3
Elytral disc with several spots or a single subterminal dark area 4
- 3(2) Elytral disc almost entirely metallic blue or green ; generally yellowish brown, antenna with apical four segments blackish ; length 13.0-15.0 mm *bowringii*
Elytral disc with a broad shiny black stripe less than 1/2 as broad as elytron ; pronotum with an irregular transverse pitchy mark ; elytral epipleuron 1/3 times as wide as elytron ; generally yellowish brown, with metasternum and most of abdominal segments pitchy black ; length 11.0-12.0 mm *maculata* (part)
- 4(2) Elytron with several black spots 5

- Elytron with a single large subrounded postmedian black spot, occupying about 1/4 area of disc; pronotum unspotted; generally yellowish brown with metasternum, middle of each abdominal segment, apical 2/3 of antenna, tarsi and most of tibiae blackish ; length 12.0-14.5 mm *andrewesi*
- 5(4) Elytron with black spots, generally 2:2:1 6
 Elytron with black spots, six or more 7
- 6(5) Elytral epipleuron at middle about 1/4 as wide as disc ; pronotum unspotted ; elytron with five distinct subrounded spots; generally yellowish brown with metasternum and marking of each abdominal segment blackish ; length 10.0-12.0 mm *decempunctatus*
 Elytral epipleuron at middle about 1/10 as wide as disc ; pronotum with four black spots, each side with a large one near side and a small one near middle ; elytron with five large black spots, each more or less rhomboid in shape and the last appearing as if representing two merged spots; ventral surfaces entirely brownish ; length 12.0 mm *duporti*
- 7(5) Elytron with seven markings blackish ; generally yellowish brown, pronotum with a pair of markings blackish ; length 8.0 mm*.....*..... *multimaculatus*
 Elytron with six markings blackish; generally yellowish brown, pronotum with a pair of markings blackish ; length 11.5 mm *duodecimpunctatus*
- 8(1) Elytral epipleuron less than 1/4 as broad as disc 9
 Elytral epipleuron about 1/3 as wide as disc ; generally yellowish brown, with most of metasternum and a pair of markings of each abdominal segment blackish, antenna with apical four segments blackish ; length 11.0-12.0 mm *maculatus* (part)
- 9(8) Ventral surfaces partly black ; body length 10.0-14.0 mm 10
 Ventral surfaces entirely brownish ; basal margin of elytron straight ; generally yellowish brown ; length 8.5 mm *flavus*
- 10(9) Head pale ; elytron impressed by distinct punctures; ventral surfaces of thorax pitchy black ; abdomen yellowish brown with lateral marking blackish, in some specimen almost entirely blackish ; length 10.0-12.0 mm *tarsatus*
 Head largely blackish ; elytral punctures of two sizes, the larger ones several times as large as the small ones ; antenna, legs and ventral surfaces of thorax largely black ; abdomen yellowish brown with lateral marking blackish ; length 11.0-12.0 mm *lividus*

Oides andrewesi Jacoby

Chrysomela bipunctata Fabricius, 1781, Spec. Ins., 1 : 127 (nec Linnaeus, 1758 ; *Cryptocephalus*) ("Cape of Good Hope") ; 1792, Ent. Syst., 1, 1 : 329 (Cap. Bon).-Hincks, 1949, Ann. Mag. Nat. Hist., ser. 12, 2 : 618 (nomenclature).

Adorum bipunctata : Fabricius, 1801, Syst. Eleuth., 1 : 409 (Cap. Bon).

Oides bipunctata : Weber, 1801, Obs. Ent., 53 (India orient).-Allard, 1889, Ann. Soc. Ent. France, ser. 6, 9 : 307 (Vietnam) ; 1891, Nouv. Arch. Mus. Paris, ser. 3, 3 : 230 (Luang-Prabang) ; 1904, Miss. Pavie Indo-Chine, 3 : 159 (Cambodge).-Weise, 1922, Tijdschr. Ent., 65 : 56 (Darjeeling, Bangkok).-Kimoto, 1972, Tijdschr. Ent., 93(4) : 145 (Siam).

Oides andrewesi Jacoby, 1900, Mém. Soc. Ent. Belg., 7 : 127 (Burma ; BM).-Hincks, 1949, Ann. Mag. Nat. Hist., ser. 12, 2 : 618 (independent species).-Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B : 475 (Hainan).-Vachon, 1977, Ann. Soc. Ent. France, 82 : 12 (nomenclature).

Oides indosinensis Laboissière, 1927, Ann. Soc. Ent. France, 96 : 37 (Cochinchina, Annam, Laos,

Tonkin, Assam ;HAMBURG).—Chûjô, 1962, Phil. J. Sci., 91(1-2): 65 (Formosa).—Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B: 476 (= *andrewesi*).

Oides bipunctata var. *andrewesi* : Maulik, 1936, Fauna India, Galeruc. : 109 (Burma).

Distribution : India, Burma, Thailand, Cambodia, Laos, Vietnam, Hainan, Taiwan.

Material examined. THAILAND : Mae Klang, Chiang Mai Prov., 340 m, 1 ex., 11. vi. 1965, P. D. Ashlock ; Sattahib, 1 m, 1 ex., 24. vi. 1957, J. L. Gressitt ; Bangkok, 1 ex., 24. iv. 1963, 1 ex., 24. vi. 1964, 1 ex., 26. vi. 1963, 1 ex., 10. viii. 1963, 1 ex., 20. viii. 1963, 1 ex., 7. iv. 1963, 1 ex., 10. ix. 1963, Native collr ; Kanchanaburi, 1 ex., 1. viii. 1963, 2 exs., 9. viii. 1967, 1 ex., 10. viii. 1963, 1 ex., 12. viii. 1963, Native collr ; Ratburi, 1 ex., 10. viii. 1964, 1 ex., 10. ix. 1964, Native collr ; Chantburi, 1 ex., 7. viii. 1964, 1 ex., 14. ix. 1963, Native collr ; Kao Yai, 1 ex., 29. vii. 1963, 1 ex., 14. x. 1963, Native collr ; Prachuabkirikhan, 2 exs., 16. vii. 1963, Native collr ; Phuket, 1 ex., 8. v. 1963, Native collr ; Pitsanuloke, 1 ex., 12. viii. 1964, Native collr ; Bangkok, 1 ex., 20. vi. 1963, Native collr ; Nakornrajsima, 1 ex., 13. x. 1963, Native collr ; Phuket, 1 ex., 8. v. 1963, Native collr ; Phukae, 1 ex., 9. v. 1963, Native collr ; Kampaengpet, 1 ex., 10. ix. 1963, Native collr (BISHOP) ; Mae Klang Water Fall, nr. Chom Thong, 1 ex., 11. vi. 1965, K. Morimoto ; Chiang Mai, 1 ex., 18. vii. 1970, S. Nakao (KU) ; Tak, 1 ex., 6. vi. 1959, 1 ex., 20. vi. 1959, 1 ex., 21. vi. 1959, 1 ex., 27. vi. 1959, 1 ex., 29. vi. 1959, 6 exs., 28. vi. 1959 ; Kanchanaburi, 19 exs., 21. v. 1962 ; Prachuab Khiri Khan, 2 exs., 20. v. 1956 ; Phathomathani, 1 ex., 17. viii. 1956, 1 ex., 17. iv. 1956, 1 ex., 11. vi. 1958, 1 ex., 20. viii. 1956 ; Nakhon Ratchasima, 2 exs., 22. vi. 1958, 1 ex., 21. vi. 1958, 1 ex., 7. x. 1958 ; Saraburi, 4 exs., 21-22. vi. 1956 ; Bangkok, 2 exs., 12. viii. 1955 ; Nakhon Ratchasima, 1 ex., 6. ix. 1959, 1 ex., 22. vii. 1956 ; Prachuab Khiari Khan, 1 ex., v. 1956 (BANGKHEN). CAMBODIA : Ph. Chisau, 40 km, S. of P. Penh, 20 m, 1 ex., 29. iv. 1961, N. R. Spencer (BISHOP). LAOS : Vientiane Prov., Ban Van Eue, 5 exs., 30. vi. 1965, 21 exs., 31. vii. 1965, 4 exs., 15. vii. 1965, 1 ex., 30. ix. 1965, 2 exs., x. 1965, 5 exs., 30. vi. 1965, 1 ex., 2. ii. 1966, 8 exs., 31. v. 1966, 1 ex., 15. vi. 1966, 3 exs., 30. vi. 1966, 1 ex., 15. vii. 1966, 2 exs., 30. vii. 1966, 5 exs., 30. iii. 1967, 5 exs., 1-15. ix. 1967, 4 exs., 31. xii. 1968, Native collr ; Sayaboury Prov., Sayaboury, 5 exs., 14. vii. 1965, 6 exs., 25. viii. 1966, 1 ex., 15. ix. 1966, 4 exs., 30. ix. 1966, Native collr ; Borikhane Prov., Pakkading, 1 ex., 17. v. 1965, 1 ex., 13. vii. 1965, 1 ex., 14. vii. 1965, 1 ex., 31. vii. 1965, 1 ex., x. 1965, 3 exs., 28. vii. 1965, 1 ex., 8. ii. 1966, 1 ex., 29. iv. 1966, 1 ex., 15. vi. 1966, Native collr ; Attopu Prov., Houei Kong, 3 exs., 16. v. 1965, 2 exs., 31. v. 1965, 1 ex., 17. vii. 1965, 2 exs., 7. x. 1965, Native collr ; Sedone Prov., Pakse, 3 exs., 1. vi. 1965, 1 ex., 7. vi. 1965, 2 exs., 30. viii. 1965, 2 exs., Native collr ; Khammouane Prov., Phon Tiou, 3 exs., 17. v. 1965, 1 ex., 6. vii. 1965, Native collr ; Wapikhamthong Prov., Khong Sedone, 1 ex., 13. viii. 1965, Native collr ; Ban Theuong, 18 km NW of Xieng Khouang, 1,035 m, 1 ex., 2-8. viii. 1960, R. E. Leech ; Xieng Kyouang Prov., Ban San Thang, 1 ex., 5. vi. 1965, Native collr ; Tonpheng, 1 ex., 30. xi. 1966, Native collr ; Dang Dok, 1 ex., 23. vii. 1965, Native collr (BISHOP) ; Umgeb. Vientiane, 16 exs., iii-vi. 1963 ; Umgeb. Paklay, 9 exs., 1963 ; Umgeb. Vanky, 3 exs., 1963-64 (MÜNCHEN).

***Oides bowringii* (Baly)**

Adorium bowringii Baly, 1863, Trans. Ent. Soc. London, ser. 3, 1: 623 (Hong Kong; BM).

—Fairmaire, 1889, Ann. Soc. Ent. France, 58 : 74 (Korea, Moupin).

Oides bowringii : Laboissière, 1919, Bull. Soc. Ent. France, 1919 : 161 ("N. China").—Ogloblin, 1936, Fauna USSR, 26, 1: 149 (Korea, Japan).—Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B: 475, 476 (China).

Oides elegans Laboissière, 1919, Bull. Soc. Ent. France, 1919 : 161 (Tonkin ; HAMBURG) ; 1929, Ann. Soc. Ent. France, 98 : 252 (China).—Ogloblin, 1936, Fauna USSR, 26, 1 : 149, 396 (Corée, China, Japon).—Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B: 476 (= *bowringii*).

Oides tonkinensis Laboissiere, 1929, Ann. Soc. Ent. France, 98 : 252 (Tonkin ; HAMBURG). New synonym.

Distribution : Vietnam, S. China, Japan, Korea.

No additional material was examined.

***Oides decempunctatus* (Billberg)**

Adorium decempunctata Billb., 1808, in Schbnherr, Syn. Ins., I, 2 : 230, note (China).

Oides decemmaculata Laboissiere, 1927, Ann. Soc. Ent. France, 96 : 39 (Tonkin ; HAMBURG).

—Chôjô, 1962, Phil. J. Sci., 91(1-2) : 63 (Formosa). New synonym.

Solanophila gigantea Roubal, 1929, Bull. Soc. Ent. Ital., 61 : 96 (Korea ; described in Coccinellidae).

—Ogloblin, 1936, Fauna USSR, 26, 1 : 148 (= ***decempunctata***).

Oides decempunctata : Allard, 1891, Nouv. Arch. Mus. Paris, ser. 3, 3 : 230 (Luang-Prabang) ; **1904**, Miss. Pavie Indo-Chine, 3 : 159 (Cambodge).—Ogloblin, 1936, Fauna USSR, 26, 1 : 148, 396, fig. 61 (Korea, N. China).—Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B : 475, 477 (China, Hainan, Vietnam).

Distribution : Cambodia, Laos, Vietnam, China, Hainan, Taiwan, Korea.

According to the study on the type of ***decemmaculata*** Laboissiere, this is only an infraspecific variation of ***decempunctata*** Billberg, in having the elytral markings larger.

Material examined. LAOS : Umgeb. Vientiane, 4 exs., iii-vi. 1963 ; 1 ex., Umgeb. Paklay, 4 exs., 1963 (MUNCHEN) ; Borikhane Prov., Pakkading, 1 ex., 22. iii. 1965, Native collr ; Sedone Prov., Pakse, 1 ex., 2. ix. 1965, Native collr ; Ile de Khong, 1 ex., 12. xi. 1965, Native collr ; Wapikhamthong Prov., Khong Sedone, 2 exs., 16. v. 1965, Native collr (BISHOP). VIETNAM : M'Drak, E. of Ban Me Thout, 4-600 m, 1 ex., 8-19. vii. 1960, C. M. Yoshimoto (BISHOP).

***Oides duodecimpunctatus* (Clark)**

Rhombopalpa duodecimpunctata Clark, 1865, Ann. Mag. Nat. Hist., ser. 3, 15 : 143 (Siam).

Oides duodecimpunctata : Jacoby, 1883, Proc. 2001. Soc. London, 1883 : 400 (mentioned).

Distribution : Thailand.

I could not trace the type location of this species.

***Oides duporti* Laboissière Fig. 1c**

Oides duporti Lab., 1920, Bull. Soc. Ent. France, 1919 : 160 (Tonkin ; HAMBURG).

Oides leucomelaena Weise, 1922, Tijdschr. Ent., 65 : 58 (Fukien ; STOCKHOLM).—Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B : 475, 478, fig. (S. China). New synonym

Oides leucomelaena varr. *subsinuata*, ***disjuncta*** Pic, 1928, Mel. Exot. Ent., 52 : 29 (Tonkin).

Distribution : Vietnam, S. China.

No additional material was examined.

***Oides duvaucelii* (Guérin-Ménéville)**

Adorium duvaucelii Guérin-Ménéville, 1830, Voy. Coquille., Zool., 2 : 148 (Cochinchina).

Distribution : Vietnam.

I could not find the type series, Judging from the original description, this species is close to *Oides bowringii* (Baly) or same. This species is not included in the key.

Oides flavus (Olivier)

Adotium flavum Oliv., 1807, Entomolog., 5 : 611, pl. 1, fig. 5 (Bengale).-Vachon, 1977, Ann. Soc. Ent. France, 82 : 12 (nomenclature).

Oides inornata Baly, 1879, Cist. Ent., 2 : 444 (Assam ; BM).-Maulik, 1936, Fauna India, Galeruc. : 118 (= *flava*).

Oides albicans Duvivier, 1884, Notes Leyden Mus., 6 : 237 (E. Sumatra).-Allard, 1891, Nouv. Arch. Mus. Paris, ser. 3, 3 : 230 (Luang-Prabang) ; 1904, Miss. Pavie Indo-Chine, 3 : 159 (Cambodge).-Maulik, 1936, Fauna India, Galeruc. : 118 (= *flava*).

Oides coomani Laboissike, 1927, Ann. Soc. Ent. France, 96 : 42 (Tonkin ; HAMBURG). New synonym.

Oides flava : Allard, 1891, Nouv. Arch. Mus. Paris, ser. 3, 3 : 230 (Luang-Prabang) ; 1904, Miss. Pavie Indo-Chine, 3 : 159 (Cambodge).-Maulik, 1936, Fauna India, Galeruc. : 118 (India, Malay Peninsula, Sumatra, Java, SE. Borneo, Philippines).-Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B : 477 (Hainan, Vietnam).-Kimoto & Takizawa, 1972, Kontyû, Tokyo, 40(4) : 217 (Nepal). Distribution : India, Nepal, Cambodia, Laos, Vietnam, Hainan, Malaya, Sumatra, Java, Borneo, Philippines.

Material examinaed. LAOS : Umgeb. Paklay, 1 ex., 1963 (MUNCHEN).

Oides lividus (Fabricius)

Adorium lividum Fabr., 1801, Syst. Eleuth., 1 : 410 (Sumatra).

Oides livida : Weber, 1801, Obs. Ent. : 53 (India orientali).-Vachon, 1980, Ann. Soc. Ent. France, 85 : 15 (nomenclature).

Adotium diardi Guérin-Ménéville, 1830, Voy. Coquille, Zool., 2 : 148 (Cochinchina). New synonym.

Rhombopalpa pectoralis Clark, 1865, Ann. Mag. Nat. Hist., ser. 3, 15 : 144 (Siam ; BM).-Vachon, 1980, Bull. Soc. Ent. France, 85 : 144 (= *livida*).

Oides pectoralis : Jacoby, 1884, Notes Leyd. Mus., 6 : 37 (Sumatra).-Duvivier, 1891, C. R. Soc. Ent. Belg., 35 : 45 (Bengale).-Maulik, 1936, Fauna India, Galeruc. : 114 (India, Sikkim, Burma, Siam, Malaya, Sumatra).-Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B : 475, 478 (China).-Kimoto & Takizawa, 1972, Kontyû, Tokyo, 40 : 217 (Nepal).-Kimoto, 1977, Ent. Basiliensia, 2 : 354 (Bhutan).

Oides nigripes Jacoby, 1891, Entomolog., 25 (Suppl) : 34 (Sikkim ; BM).-Maulik, 1936, Fauna India, Galeruc. : 114 (= *pectoralis*).

Oides pallidicornis Jacoby, 1899, Stett. Ent. Ztg., 60 : 284 (Sumatra).-Vachon, 1980, Bull. Soc. Ent. France, 85 : 15 (= *livida*).

Distribution : India, Nepal, Bhutan, Burma, Thailand, Laos, Vietnam, Malaya, Sumatra.

I could not check the type of *Adorium diardi* Guérin. Judging from the original description, this species is no doubt a synonym of *livida* Fabricius.

Material examined. THAILAND : Saraburi, 1 ex., 21. vii. 1956 ; Chanataburi, 2,000 ft, 1 ex., 20-30. v. 1959 ; Kanchanaburi, 2 exs., 21. v. 1962 (BANGKHEN) ; Pattani, 1 ex., 31. viii. 1964, Native collr (BISHOP). LAOS : Umgeb. Vientiane, 2 exs., iii-vi. 1963 ; Umgeb. Paklay, 4 exs., 1963 ; Umgeb. Pakse, 1 ex., 1963 ; Umgeb. Vankay, 1 ex., 1964 (MUNCHEN) ; Vientiane Prov., Ban Van Eue, 1 ex., 15-31. iv. 1965, 1 ex., 1-15. v. 1965, 3 exs., 15-31. v. 1965, Native collr ; Vientiane Prov., Phou Kou Khouei, 1 ex., 30. vi. 1965, Native collr ; Khammouane Prov., Phon Tiou, 1 ex., 17. v. 1965, Native collr ; Borikhané Prov., Pakkading, 100 m, 1 ex., 23. iv. 1965, J. L. Gressitt ; Attopeu Prov., Houei

Kong, 1 ex., 16. v. 1965, Native collr (BISHOP).

Oides maculatus (Olivier)

Adorium maculatum Oliv., 1807, Entomolg., 5: 611, pl. 1, fig. 4 (Java).

Adorium subhemisphaericum Guérin-Ménéville, 1830, Voy. Coquille, Zool., 2: 146 (Java).—Fairmaire, 1888, Ann. Soc. Ent. France, ser. 6, 8: 374 (Tonkin).—Gahan, 1891, Ann. Mag. Nat. Hist., ser. 6, 7: 460 (= *maculata*).

Oides indica Baly, 1879, Cist. Ent., 2: 443 (Assam).—Jacoby, 1889, Ann. Mus. Civ. Genova, 26: 206 (Burma).—Gahan, 1891, Ann. Mag. Nat. Hist., ser. 6, 7: 460 (= *maculata*).

Adorium laticlavum Fairmaire, 1889, Ann. Soc. Ent. France, ser. 6, 9: 74 (China: Kweichow, Maupin; PARIS). New **synonym**.

Oides subhemisphaerica: Allard, 1891, Nouv. Arch. Mus. Paris, ser. 3, 3: 230 (Luang Prabang); 1904, Miss. Pavie Indo-Chine, 3: 159 (Cambodge: Luang-Prabang à Theng).

Oides laticlava: Laboissière, 1929, Ann. Soc. Ent. France, 98: 252, fig. 1 (China).—Ogloblin, 1936, Fauna USSR, 26, 1: 148, 396 (China).—Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B: 475, 478 (SW. China, Taiwan).

Oides epipleuralis Laboissière, 1929, Ann. Soc. Ent. France, 98: 254, fig. (Formosa; HAMBURG).—Chôjô, 1962, Phil. J. Sci., 91(1-2): 68 (Formosa).—Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B: 478 (= *laticlava*).

Oides maculata: Allard, 1891, Nouv. Arch. Mus. Paris, ser. 3, 3: 230 (Luang-Prabang); 1904, Miss. Pavie Indo-China, 3: 159 (Cambodge).—Maulik, 1936, Fauna India, Galeruc.: 106, 113 (India, Burma, Andaman Is., Penang, Java, Cambodia).—Chôjô, 1964, Nature and Life in SE Asia, Kyoto, 3: 296 (Thailand).—Kimoto, 1982, Ent. Rev. Japan, 37(1): 9 (Nepal).

Distribution: India, Nepal, Sikkim, Burma, Thailand, Cambodia, Laos, Vietnam, China, Taiwan, Malaya, Java.

This species is usually entirely pale above, but in most of the Chinese specimens it is characteristic in having the large blackish marking covering most of the surface of elytron. I could not check the type of *Adorium maculatum* Olivier. According to the study on the material identified by Laboissière, the specimens identified as *laticlava* or *epipleuralis* are the same as *maculatus* (Olivier), and its infraspecific variation.

Material examined. THAILAND: Cholburi, 19 exs., 16. x. 1956, Nakhon si thamarat, 7 exs., 7. ix. 1958; Saraburi, 2 exs., 21-22. vii. 1956; Phrae, 3 exs., 18. vi. 1938; Nakhon ratchasima, 2 exs., 23. vi. 1958, 1 ex., 15. vi. 1958 (BANGKHEN); Chiangmai Prov., Fang, 500 m, 1 ex., 13. vi. 1965, F. D. Ashlock; Chawang Co., 1 ex., 7. ix. 1958, J. L. Gressitt; Banna, Chawang, nr. Nabon, 70 m, 1 ex., 5. ix. 1958, J. L. Gressitt; Saraburi, 1 ex., 18. ix. 1964, Native collr; Kanchanaburi, 1 ex., 10. viii. 1967, Native collr; Bang Khen, 1 ex., 7. ix. 1964, Native collr (BISHOP). LAOS: Umgeb. Vientiane, 10 exs., iii-vi. 1963; Umgeb. Pakse, 3 exs., 1963, Umgeb. Paklay, 3 exs., 1963-64; Umgeb. Vanky, 2 exs., 1963 (MUNCHEN); Sayaboury Prov., Sayaboury, 3 exs., 30. v. 1965, 5 exs., 14. vii. 1965, 5 exs., 25. viii. 1966, 2 exs., 30. ix. 1966, Native collr; Borikhane Prov., Pakkading, 3 exs., 14. vii. 1965, 1 ex., 3. viii. 1965, 1 ex., 13. v. 1966, Native collr; Sedone Prov., Pakse, 3 exs., 5. vii. 1965, Native collr; Vientiane Prov., Ban Van Eue, 1 ex., 29. iii. 1966, 1 ex., 15. iv. 1966, Native collr; Khammouane Prov., Phon Tiou, 1 ex., 17. v. 1965, 1 ex., 10. vi. 1965, 1 ex., 6. vii. 1965, 1 ex., 4. viii. 1965, 1 ex., 28. ix. 1965, Native collr; Vientiane Prov., 1 ex., 31. vii. 1965, Native collr (BISHOP).

Oides multimaculatus Pic

Oides multimaculata Pic, 1928, Mém. Exot. Ent., 52 : 29 (Tonkin ; PARIS).

Distribution : Vietnam.

No additional material was examined beside the type series.

Oides tarsatus (Baly)

Adorium tarsatum Baly, 1865, Trans. Ent. Soc. London, ser. 3, 2 : 435 (N. China ; BM).

Adorium sordidum Baly, 1865, *ibid.* : 435 (N. China ; BM).-Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B : 479 (= *tarsata*).

Oides tibetana Jacoby, 1900, Mém. Soc. Ent. Belg., 7 : 128 (Tibet ; BM).-Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B : 479 (Tibet ; BM). New **synonym**.

Oides tibialis Laboissière, 1927, Ann. Soc. Ent. France, 96 : 40 (Tonkin ; HAMBURG). New **synonymy**.

Oides sordida: Ogloblin, 1936, Fauna USSR, 26, 1 : 147, 396 (China).

Oides tarsata: Ogloblin, 1936, *ibid.* : 147, 395 (Peking).-Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B : 475, 479 (China).

Oides tibiella Wilcox, 1971, Col. Cat. Junk, Suppl., 7(1) : 17 (new name for *Oides tibialis* Lab., nec Duvivier, 1884, from Philippines). New **synonym**.

Distribution : Vietnam, China.

No additional material was examined.

Genus **Hoplasoma** Jacoby

Hoplasoma Jacoby, 1884, Notes Leyden Mus., 6 : 233 (type : *Hoplasoma apicalis* Jacoby ; Celebes).-Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B : **393, 497**.

Hoplosoma Baly, 1889, Trans. Ent. Soc. London, 1889 : 308.

Haplosoma Jacoby, 1896, Ann. Soc. Ent. Belg., 40 : 271, 273.

Paraulacophora Csiki, 1953, Ann. Hist.-Nat. Mus. Nat. Hung., 3 : 131.

KEY TO SPECIES OF *Hoplasoma*

- 1 Elytron without any trace of lateral costa starting from humeri2
- Elytron with lateral costa starting from humeri ; pronotum nearly 1 1/2 times as wide as long ; generally yellowish brown ; ventral surfaces of metathorax and abdomen pitchy black ; antenna pitchy black with basal segments paler ; legs pitchy black with femora brownish ; in some specimen elytron with an ill-defined longitudinal stripe blackish ; length 7.2–8.1 mm *thailandicum*
- 2(1) Pronotum less than twice as wide as long ; generally yellowish brown, ventral surfaces of abdomen pitchy black ; in male a pair of processes arised from middle of posterior margin of second abdominal segment ; length 7.0–8.5 mm *unicolor*
- Pronotum fully twice as wide as long ; generally yellowish brown, ventral surfaces of metathorax and abdomen pitchy black, antenna with apical segments infuscate, posterior legs mostly pitchy brown ; in male abdominal segment without any distinct processes ; length 9.0–10.5 mm *majorinum*

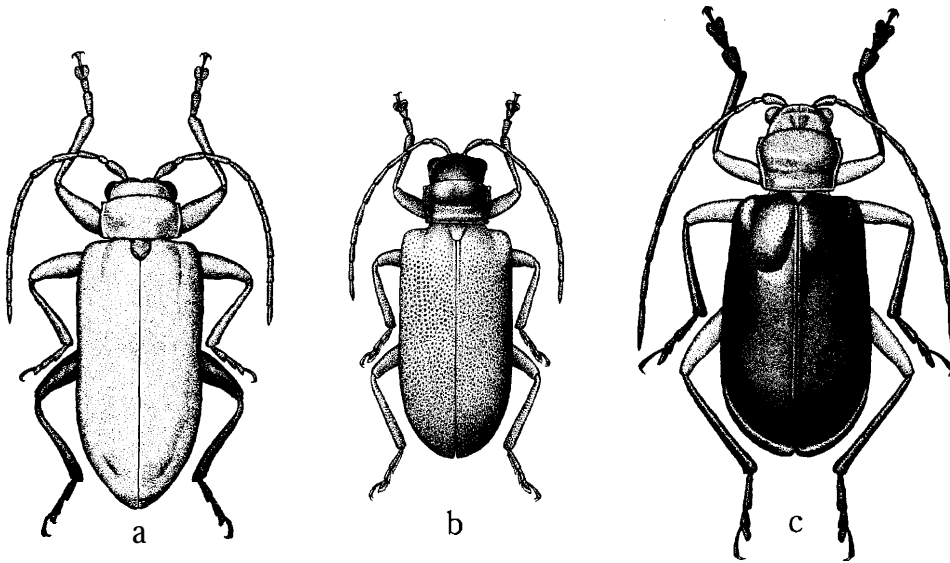


Fig. 13. a, *Hoplasoma majorinum* Laboissiere ; b, *H. unicolor* (Illiger) ; c, *Agelocera filicornis* Laboissiere.

Hoplasoma majorinum Laboissière Fig. 13a

Hoplasoma majorina Lab., 1929, Ann. Soc. Ent. France, 98 : 258, fig. (Tonkin : Hanoi, Chapa ; Yunnan ; HAMBURG).—Chûjô, 1962, Phil. J. Sci., 91(1-2) : 72 (Formosa).—Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B : 497, fig. (China).—Kimoto, 1984, Ent. Rev. Japan, 39(1) : 49 (Taiwan).
Distribution : Laos, Vietnam, S. China, Taiwan.

Material examined. LAOS : Xieng Kyouang Prov., Ban Sam Thang, 3 exs., 5. vi. 1965, Native collr (BISHOP).

Hoplasoma thailandicum n. sp. Fig. 14a

Generally yellowish brown, antenna pitchy black with two or three basal segments yellowish brown, ventral surfaces with metathorax and abdomen pitchy black, legs pitchy black with femora yellowish brown ; in some specimen elytron with an ill-defined blackish stripe at middle.

Head with vertex smooth, shining, sparsely impressed by minute punctures, interocular space much wider than transverse diameter of single oculus, and interocular transverse impression distinct, frontal tubercle transverse, subquadrate, contiguous, distinctly raised, surface smooth, impunctate. Antenna slender, nearly $\frac{3}{4}$ as long as body length ; first segment long, robust, second shortest, nearly $\frac{1}{3}$ as long as first, third three times as long as second, fourth $1\frac{1}{3}$ times as long as third, fourth to seventh subequal to each other in length and shape, eighth slightly shorter than seventh, ninth subequal to eighth in length and shape, tenth slightly shorter than ninth, eleventh subequal to ninth in length but its apex pointed. Pronotum transverse, $1\frac{1}{2}$ times as broad as long, anterior margin nearly straight, lateral margin feebly rounded, widest almost at $\frac{1}{3}$ from anterior margin, slightly narrowed anteriorly and more strongly so posteriorly, basal margin slightly rounded posteriorly, dorsal surface smooth, shining, sparsely impressed by minute punctures, and with a distinct subbasal

transverse depression. Scutellum subtriangular, finely granulate, impunctate. Elytron with lateral margin subparallel-sided, apex rounded, surface strongly and rather closely punctate and their interstices smooth, shining.

Length 7.2–8.1 mm.

Holotype (Type No. 2697, Kyushu Univ.) : THAILAND : Chiangmai Prov., Doi Suthep, 1,000 m, 12. v. 1965, K. Morimoto. Paratypes : THAILAND : 2 exs., same data as the holotype but 18. vi. 1965, K. Morimoto & Y. Miyatake ; Chiangmai Prov., Doi Pui, 1,300 m, 1 ex., 8. vi. 1965, Y. Miyatake ; Chiangmai Prov., Chieng Dao, 1 ex., 15. vi. 1965, K. Morimoto (KU, KIMOTO) ; Chiangmai Prov., Doi Suthep, 1,300 m, 1 ex., 8. vi. 1965, P. D. Ashlock (BISHOP) ; "Siam", 1 ex., Lot 319 (BANGKHEN).

This new species somewhat resembles *Hoplasoma costatipennis* Jacoby, from India, but differs in having mesothorax and the abdomen blackish, and elytron with the apex of the suture rounded.

Hoplasoma unicolor (Illiger) Fig. 13b

Galleruca unicolor Ill., 1800, in Wiedemann, Arch. für 2001. u Zoot., 1, 2 : 135 (Bengal).

Haplosoma ventralis Baly, 1886, Trans. Ent. Soc. London, 1886 : 27 (Borneo : Sarawak ; BM).

-Maulik, 1936, Fauna India, Galeruc. : 161 (= *unicolor*).

Haplosoma unicolor : Allard, 1888 (1889), Ann. Soc. Ent. France, ser. 6, 8 : 327 (Sumatra, Singapore, ile Bontang).—Jacoby, 1896, Ann. Soc. Ent. Belg., 40 : 271 (mentioned).

Haplosoma corniculata Allard, 1888 (1889), Ann. Soc. Ent. France, ser. 6, 8 : 328 (Sunda Is., Phom Penh ; PARIS) ; 1891, Nouv. Arch. Mus. Paris, ser. 3, 3 : 231 (Luang Prabang).—Jacoby, 1896, Ann. Soc. Ent. Belg., 40 : 271 (= *ventralis*).—Allard, 1904, Miss. Pavie Indo-Chine, 3 : 160 (Laos, Luang Prabang).—Maulik, 1936, Fauna India, Galeruc. : 161 (= *unicolor*).

Hoplosoma javana : Allard, 1888 (1889), Ann. Soc. Ent. France, ser. 6, 8 : 327 (Annam).

Phyllobrotica unicolor : Jacoby, 1889, Ann. Mus. Civ. Genova, 27 : 230 (Burma).

Haplasoma abdominalis Jacoby, 1896, Ann. Soc. Ent. Belg., 40 : 272 (Rangoon, Cashar, Tenasserim ; BM).—Maulik, 1936, Fauna India, Galeruc. : 161 (= *unicolor*).

Haplosoma simplicipennis Jacoby, 1896, Ann. Soc. Ent. Belg., 40 : 272 (Kanara, Belgaum, S. Bombay ; BM).—Maulik, 1936, Fauna India, Galeruc. : 161 (= *unicolor*).

Hoplasoma unicolor : Maulik, 1936, Fauna India, Galeruc. : 161 (India, Burma, Andaman Is., Siam, Malay Pen., Sumatra, Java, Billiton Is., Borneo, Philippines, China, Korea).—Laboissière, 1940, Bull. Mus. Hist. Nat. Belg., 16(3) : 8 (Inde, Indochine, Indes néerlandaises).—Chûjô, 1961, Nature and Life in SE Asia, Kyoto, 1 : 350 (Thailand).—Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B : 497, 499, fig. (S. China, Hainan, Vietnam).—Chûjô, 1964, Nature and Life in SE Asia, Kyoto, 3 : 292 (Thailand).—Kimoto, 1972, Tijdschr. Ent., 93(4) : 145 (Annam).—Kimoto & Takizawa, 1972, Kontyû, Tokyo, 40(4) : 216 (Nepal).—Kimoto, 1977, Ent. Basiliensia, 2 : 354 (Bhutan) ; 1979, *ibid.*, 4 : 469 (Bhutan, India).—Kimoto & Takizawa, 1981, Ent. Rev. Japan, 35 (1-2) : 58 (Nepal).

Aulacophora (Paraulacophora) pannonica Csiki, 1953, Ann. Hist.-Nat. Mus. Nat. Hung., 3 : 132 (Hungary).—Kaszab, 1962, Fol. Ent. Hung., 15 : 25 (Hungary ; suggested as imported one from the Oriental region).—Silfverberg, 1978, *ibid.*, 31 : 219 (= *unicolor*).

Distribution : India, Burma, Nepal, Bhutan, Thailand, Laos, Vietnam, S. China, Hainan, Malaya, Philippines, Sumatra, Java, Billiton, Borneo.

Material examined. THAILAND : Krabi, 1 ex., 2. xii. 1963, 5 exs., 1. ix. 1964, Native collr ; Trang Prov., Khaophapha Khaochong, 200–400 m, 1. ex., 30–31, xii, 1967, 2 exs., 10. i. 1964, G. A. Samuelson ; Banna, Nakhon, 100 m, 2 exs., 5–10. v. 1958, T. C. Maa (BISHOP) ; Chiangmai Prov., Doi Suthep, 1,000 m, 4 exs., 12. vi. 1965, K. Morimoto ; Chiangmai Prov., Mae Sa Watter Fall, 4 exs., 16.

vi. 1965, K. Morimoto ; Khao Chong, nr. Trung, 1 ex., 25. vi. 1965, Y. Miyatake ; Sanpatong, 2 exs., 10. vii. 1970, K. Yano, 1 ex., 24. viii. 1973, S. Nakao (KU) ; Trang, 13 exs., 1-18. iv. 1960 ; Rannong, 3 exs., 15. x. 1959, 5 exs., 17. x. 1959; Tak, 2,800 ft., 8 exs., 20. viii. 1961 (BANGKHEN). LAOS : Vientiane Prov., Ban Van Eue, 11 exs., 15-31. v. 1965, J. A. Rondon, 2 exs., 15-31. v. 1965, 12 exs., 31. vii. 1965, 4 exs., 30. ix. 1965, 6 exs., 30. vi. 1965, 2 exs., 31. v. 1966, 1 ex., 30. vi. 1966, 4 exs., 15. xii. 1966, 1 ex., 30. xi. 1966, 1 ex., 15. ii. 1967, 6 exs., 30. iii. 1967, 1 ex., 30. vi. 1967, 6 exs., 30. viii. 1967, 2 exs., 1-15. ix. 1967, 6 exs., 31. xii. 1968, Native collr ; Vientiane Prov., Gi Sion Vill., de Tha Ngone, 1 ex., 10-24. x. 1965, Native collr ; Sayaboury Prov., Sayaboury, 2 exs., 15. iv. 1965, J. L. Gressitt, 2 exs., 17. v. 1965, 2 exs., 16. vii. 1965, Native collr ; Khammouane Prov., Phon Tiou, 1 ex., 30. iv. 1965, 2 exs., 17. v. 1965, 2 exs., 16. vii. 1965, 21 exs., 11. ix. 1965, Native collr ; Attopeu Prov., Howeï Kong, 4 exs., 31. v. 1965, Native collr ; Sedone Prov., Pakse, 1 ex., 31. v. 1967, Native collr ; Tonpheng, 2 exs., 30. x. 1965, Native collr ; Borikhane Prov., Pakkading, 2 exs., 17. v. 1965, 1 ex., 13. vii. 1965, 2 exs., x. 1965, Native collr ; Ban Theuong, 18 km NW of Xieng Khouang, 1,035 m, 1 ex., 2-6. viii. 1960, 1 ex., 10-17. viii. 1960, R. E. Leech (BISHOP) ; Umgeb. Vientiane, 3 exs., 1963; Umgeb. Paklay, 16 exs., 1963 ; Umgeb. Pakse, 1 ex., 1964 ; Umgeb. Vankay, 2 exs., 1963 (MUNCHEN). VIETNAM : Dilinh (Djiring), 900 m, 4 exs., 22-28. iv. 1960, L. W. Quate ; 30 km N. of Dilinh, 2 exs., 27. iv. 1960, S. Quate ; 50 km SW of Pleiku, 250 m, 1 ex., 14. v. 1960, L. W. Quate ; Fyan, 1,200 m, 1 ex., 11. vii.-9. viii. 1961, N. R. Spencer (BISHOP).

Genus *Agetocera* Hope

Agetocera Hope, 1840, Col. Man., 3 : 170 (type : *Aegloceris mirabilis* Hope ; India).-Chapuis, 1875, Gen. Col., 11 : 177.—Maulik, 1936, Fauna India, Galeruc. : 125.—Ogloblin, 1936, Fauna USSR, 26, 1: 158, 397.—Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B : 393, 494.

KEY TO SPECIES OF *Agetocera*

- | | | |
|------|--|--------------------|
| 1 | Ventral surfaces partly brownish and partly blackish | 2 |
| | Ventral surfaces entirely brownish | 3 |
| 2(1) | Ventral surfaces brownish with meso- and metathorax blackish ; antenna entirely brownish ; in male eighth antennal segment subequal to seventh in length and shape, ninth subcylindrical and tenth deeply emarginate at middle ; elytron black ; generally reddish brown ; legs pitchy black with anterior femur brownish ; length 11.0 mm | <i>nigripennis</i> |
| | Ventral surfaces brownish with fifth abdominal segment blackish ; elytron purplish blue ; generally yellowish brown, legs with tarsi and most of tibiae blackish ; length 12.0—13.0 mm | <i>duporti</i> |
| 3(1) | Antenna with eighth to ninth segments deformed in male | 4 |
| | Antenna normal in male ; pronotum strongly widened anteriorly ; elytron somewhat uneven, widened posteriorly, finely and irregularly punctured ; generally reddish brown, elytron violaceous blue, antenna and legs mostly blackish ; length 9.0-12.0 mm | <i>filicornis</i> |
| 4(3) | Fourth antennal segment of female not deformed | 5 |
| | Fourth antennal segment of both sexes deformed, somewhat sinuate ; elytron purplish blue ; generally yellowish brown, legs with tarsi and apical half of tibiae blackish, antenna with apical two segments blackish ; length 13.5-16.0 mm | <i>mirabilis</i> |
| 5(4) | In male eighth antennal segment subcylindrical, different from seventh segment | 6 |

- In male eighth antennal segment subequal to seventh in shape, ninth subcylindrical and tenth deeply emarginate at middle ; elytron black ; generally reddish brown, legs with tibiae and tarsi pitchy black, antenna entirely yellowish brown ; length 10.0-12.0 mm *lobicornis*
- 6(5) Ninth antennal segment of male excavated or angulate ; antenna yellowish brown with two or three apical segments blackish 7
Ninth antennal segment of male subcylindrical, with depression bearing a small tubercle ; generally yellowish to reddish brown, elytron dull violet purple ; antenna largely black ; legs with tibiae and tarsi blackish; length 12.5-14.0 mm *chapana*
- 7(6) In male, ninth antennal segment with a very strong external protuberance at base and weaker one at apex, forming a deep crescent between ; elytron greenish to purplish black ; generally yellowish brown, legs with tarsi and apical half of tibiae blackish, and antenna with apical two segments blackish ; length 11.5-12.0 mm *hopei*
In male, ninth antennal segment with angulately expanded ; elytron cupreous violaceous; generally yellowish brown, legs with tibiae and tarsi largely blackish ; length 12.0 mm *orientalis*

***Agetocera chapana* Laboissière**

Agetocera chapana Lab., 1929, Ann. Soc. Ent. France, 98 : 260 (Tonkin ; HAMBURG).-Maulik, 1936, Fauna India, Galeruc. : 132 (Burma, Chapa).-Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B : 495 (N. Vietnam).

Distribution : Burma, Vietnam.

No additional material was examined beside the type.

***Agetocera duporti* Laboissière**

Agetocera duporti Lab., 1927, Ann. Soc. Ent. France, 96 : 44 (Tonkin ; HAMBURG).

Distribution : Vietnam.

No additional material was examined beside the type.

***Agetocera filicornis* Laboissière Fig. 13c**

Agetocera filicornis Lab., 1927, Ann. Soc. Ent. France, 96 : 49 (Tonkin ; HAMBURG).-Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B : 496, fig. (China).

Distribution : Vietnam, China.

No additional material was examined beside the type.

***Agetocera hopei* Baly**

Agetocera hopei Baly, 1865, Trans. Ent. Soc. London, ser. 3, 2(5) : 438 (N. India ; BM).-Duvivier, 1891, C. R. Soc. Ent. Belg., 35 : 46 (Kurseong).-Maulik, 1936, Fauna India, Galeruc. : 130 (India, Assam, Burma).-Laboissière, 1927, Ann. Soc. Ent. France, 96 : 45, fig. 2 (Tonkin : Hanoi ; Cho-Ganh) ; 1929, *ibid.*, 98 : 261 (Tonkin).-Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B : 496 (China).-Kimoto, 1970, Spec. Bull. Lep. Soc. Japan, 4 : 170 (Nepal) ; 1977, Ent. Basiliensia, 2 : 354 (Bhutan) ; 1979, *ibid.*, 4 : 469 (Nepal, India).-Kimoto & Takizawa, 1983, Bull. Natn. Sci. Mus., Tokyo, ser. A, 9(2) : 92 (Nepal).

Agetocera pulchella Chapuis, 1875, Gen. Col., 11 : pl. 125, fig. 5.—Weise, 1902, Dtsche Ent. Z., 1902 : 367 (= *hopei*).

Agetocera quadraticollis Laboissière, 1927, Ann. Soc. Ent. France, 96 : 47 (Tonkin; HAMBURG).

New **synonym**.

Distribution : India, Burma, Nepal, Bhutan, Thailand, Laos, Vietnam, China.

It is almost impossible to separate this species from *quadraticollis* Laboissière, which is described by a single female specimen, except for the entirely brownish apical antennal segments in *quadraticollis*. In this paper, *quadrataicollis* is treated as a synonym of *hopei*.

Material examined. THAILAND : Musa nr. Fang, 1 ex., 22. vi. 1968, K. Hatta (EHIME). LAOS : Vientiane Prov., 1 ex., 30. ix. 1965, 1 ex., 30. vi. 1966, Native collr ; Vientiane Prov., Gi Sion Vill., de Tha Ngone, 2 exs., 10-24. x. 1965, 2 exs., 24-31. x. 1965, Native collr ; Vientiane Prov., Tha Ngone, 6 exs., 9. viii. 1965, Native collr ; Vientiane Prov., Phou Kou Khoueï, 1 ex., 29. ix. 1965, Native collr ; Sedone Prov., Paksong, 6 exs., 4. ii. 1965, 1 ex., 1. vi. 1965, 5 exs., 5. vii. 1965, 9 exs., 6. vii. 1965, Native collr ; Sayaboury Prov., Sayaboury, 1 ex., 15. ix. 1966, Native collr ; Xieng Khouang Prov., Muong Soui, 1 ex., 1. ix. 1965, Native collr ; Tonpheng, 4 exs., 30. ix. 1965, 1 ex., 15. viii. 1966, Native collr (BISHOP).

***Agetocera lobicornis* Baly**

Agetocera lobicornis Baly, 1865, Trans. Ent. Soc. London, ser. 3, 2(5) : 437 (India ; BM).—Maulik, 1936, Fauna India, Galeruc. : 133 (India, Burma).

Distribution : India, Burma, Thailand, Laos.

Material examined. THAILAND : 50 km West of Tak, 900 m, 6 exs., 7-8. iv. 1966, M. Sedlacek (BISHOP). LAOS : Vientiane Prov., Ban Van Eue, 1 ex., 15. vii. 1966, Native collr ; Borikhane Prov., Pakkading, 100 m, 1 ex., 23. iv. 1965, J. L. Gressitt, 1 ex., 15. iv. 1965, J. A. Rondon, 4 exs., 10. v. 1965, Native collr ; Borikhane Prov., Namkading, 100 m, nr. Pakkading, 2 exs., 22. iv. 1965, J. L. Gressitt ; Sedone Prov., Paksong, 1 ex., 16. v. 1965, Native collr ; Khammouane Prov., Phon Tiou, 2 exs., 30. iv. 1965, Native collr ; Muon Sing, NW of Luang Prabang, 650 m, 6 exs., 6-10. vi. 1960, S. Quate & L. Quate (BISHOP) ; Umgeb. Paklay, 2 exs., 1963 (MUNCHEN).

***Agetocera mirabilis* (Hope)**

Aeglocerus mirabilis Hope, 1831, in Gray, 2001. Miscell. : 29 (Nepal ; BM).

Aplosonyx heterocera Redtenbacher, 1868, Reise Novara, Zool., 2, Col. : 206 (Hong Kong ; WIEN).

—Maulik, 1936, Fauna India, Galeruc. : 127 (= *mirabilis*).

Agetocera heterocera : Duvivier, 1891, C. R. Soc. Ent. Belg., 35 : 46 (India).

Agetocera orientalis : Weise, 1922 (nec 1902), Tijdschr. Ent., 65 : 63 (Darjeeling).—Laboissière, 1929, Ann. Soc. Ent. France, 98 : 262 (corrected as *mirabilis*).

Agetocera mirabilis : Laboissière, 1927, Ann. Soc. Ent. France, 96 : 43, fig. 4 (Nepal ; Assam, Tonkin, Laos).—Maulik, 1936, Fauna India, Galeruc. : 127, fig. 43 (India, Burma, Hainan, Laos).

—Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B : 495, 496 (Hainan).—Kimoto & Takizawa, 1972,

Kontyû, Tokyo, 40(4) : 216 (Nepal).—Kimoto, 1979, Ent. Basiliensia, 4 : 469 (Nepal, India).

Distribution : India, Nepal, Bhutan, Burma, Laos, Vietnam, China, Hainan.

Material examined. LAOS : Vientiane Prov., Ban Van Eue, 3 exs., 30. vi. 1965, 3 exs., 31. vii. 1965, 1 ex., 15. viii. 1966, 1 ex., 30. iii. 1967, Native collr ; Vientiane Prov., Phou Kou Khoueï, 1 ex., 29. ix. 1965, Native collr ; Wapikhamthong, Khong Sedone, 1 ex., 27. ix. 1965, Native collr ; Attopeu Prov., Houei Kong, 1 ex., 17. vii. 1965, Native collr ; Sedone Prov., Paksong, 1 ex., 1. vi. 1965, Native collr ; Sedone Prov., Pakse, 1 ex., 30. viii. 1965, Native collr ; Thonpheng, 2 exs., 15. viii. 1966, Native collr

(BISHOP) ; Umgeb. Vientiane, 6 exs., 1963 (MUNCHEN). VIETNAM : Tonkin, 1 ex., 10. iii. 1942, T. Esaki (KU).

***Agetocera nigripennis* Laboissière**

Agetocera nigripennis Lab., 1927, Ann. Soc. Ent. France, 96 : 48 (Tonkin ; HAMBURG).

Distribution : Vietnam.

No additional material was examined beside the type specimen.

***Agetocera orientalis* Weise**

Agetocera orientalis Weise, 1902, Dtsche Ent. Z., 1902 : 367 (Tonkin).

Distribution : Vietnam.

No material was examined.

***Agetocera sokolovi* Medvedev**

Agetocera sokolovi Medvedev, 1981. Zool. Zh., 60(4) : 618, fig. (Vietnam).

Distribution : Vietnam.

No material was examined. This species is not included in the key.

Genus *Pseudocophora* Jacoby

Pseudocophora Jac., 1884, Notes Leyden Mus., 6 : 69, 214 (type : *Galleruca buquetii* Guérin ; Java).

-Maulik, 1936, Fauna India, Galeruc. : 198.—Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B : 303, 490.

KEY TO SPECIES OF *Pseudocophora*

- | | | |
|------|--|-------------------|
| 1 | Legs entirely yellowish brown | 2 |
| | Legs in part blackish | 5 |
| 2(1) | In male, postscutellar structure conspicuous, not nearly flat ; in female fifth abdominal segment not emarginate at apex | 3 |
| | In male, postscutellar structure nearly flat, impunctate, with a fovea near suture ; in female fifth abdominal segment deeply and narrowly emarginate at apex ; generally yellowish brown with metathorax and part of basal four segments of abdomen black ; length 5.2-5.5 mm | <i>pectoralis</i> |
| 3(2) | Elytron yellowish to reddish brown | 4 |
| | Elytron black, in some specimen basal margin and part of epipleuron brownish ; generally yellowish to reddish brown ; length 4.8-5.0 mm | <i>nitens</i> |
| 4(3) | Ventral surfaces yellowish brown with metathorax and basal part of each abdominal segment blackish in various degrees ; generally yellowish brown, in male postscutellar region entirely yellowish brown ; length 5.5 mm | <i>madoni</i> |
| | Ventral surfaces yellowish brown, in some specimen metathorax blackish ; in male postscutellar region with small anterior and posterior markings black, but in some specimen entirely yellowish brown ; generally yellowish brown ; length 5.0-5.7 mm | <i>flaveola</i> |

- 5(1) Legs black with anterior leg entirely reddish brown ; in male median lobe of fifth abdominal segment flat ; generally reddish brown, ventral surfaces black ; in male postscutellar regions blackish in various degrees ; length 5.3-6.3 mm *brunnea*
 Legs reddish brown with middle and posterior femora largely blackish ; in male median lobe of fifth abdominal segment excavated ; generally yellowish brown, in male elytron with postscutellar marking blackish ; ventral surfaces entirely blackish ; length 5.3-5.7 mm *uniplagiata*

***Pseudocophora brunnea* Baly**

Pseudocophora brunnea Baly, 1886, J. Linn. Soc., Zool., 20 : 26 (Celebes) ; 1888, *ibid.*, 20 : 169, 170, 174 (Malacca, Celebes).- Jacoby, 1893, Entomolog., 225 (Suppl.) : 108 (mentioned).—Laboissière, 1940, Bull. Mus. Hist. Nat. Belg., 16(3) : 14 (mentioned).

Distribution : Thailand, Cambodia, Laos, Malaya, Celebes.

Material examined. THAILAND : Chiangmai Prov., Chiangdao, 450 m, 2 exs., 5-11. iv. 1958, T. C. Maa ; Banna, Chawang, nr. Nabon, 700 m, 3 exs., 5-10. v. 1958, 2 exs., 5-6. ix. 1958, T. C. Maa (BISHOP) ; Kao Yai Nat. Park, 1 ex., 6. vi. 1965, Y. Miyatake (KU). CAMBODIA : Kiri Rom, 700 m, 1 ex., 31. iii-7. iv. 1961, N. R. Spencer (BISHOP). LAOS : Vientiane Prov., Ban Van Eue, 1 ex., 15. viii. 1965, 1 ex., 30. xi. 1965, 1 ex., 15. xi. 1966, Native collr ; Vientiane Prov., Gi Sion Vill., de Tha Ngone, 1 ex., 10-24. x. 1965 Native collr (BISHOP).

***Pseudocophora flaveola* Baly Fig. 2b**

Pseudocophora flaveola Baly, 1888, J. Linn. Soc., Zool., 20 : 169 (Andaman Is. ; BM).-Maulik, 1936, Fauna India, Galeruc. : 206, figs. (Bengal, Burma, Tenasserim, Andaman Is.).-Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B : 491, fig. (China).

Pseudocophora flava Allard, 1888 (1889), Ann. Soc. Ent. France, ser. 6, 8 : 324 (Annam ; PARIS).—Baly, 1890, Ent. Monthly Mag., ser. 2, 1 : 14 (= *flaveola* ; as *flavescens* ; error).

Distribution : India, Burma, Andaman Is., Thailand, Laos, Vietnam, Hainan.

As mentioned by Maulik (1936), this species is variable on the coloration of the ventral surfaces. On the type specimen taken from Andaman Is., the ventral surfaces are entirely pale. The several pale. However, the other five male specimens taken from Laos are characteristic in having the postscutellar region with small anterior and posterior markings and metathorax blackish. postscutellar region with small anterior and posterior markings and metathorax blackish.

Material examined. THAILAND : Pakchong, 100 m, NE of Bangkok, 1 ex., 3. xii. 1957, J. L. Gressitt (BISHOP) ; Khon Kaen, 2 exs., 24. vii. 1980, S. Azuma (RU). LAOS : Vientiane Prov., Ban Van Eue, 2 exs., 31. vii. 1965, 1 ex., 30. xi. 1965, 1 ex., 31. xii. 1965, 1 ex., 1-15. ix. 1967, Native collr ; Borikhane Prov., Pakkading, 1 ex., 22. iii. 1965, Native collr ; Attapeu Prov., Houei Kong, 1 ex., 16. v. 1965, Native collr ; Dong Dok, 4 exs., 23. vii. 1965, Native collr ; Nongteveda, 1 ex., 17. iii. 1965, Native collr (BISHOP).

***Pseudocophora madoni* Laboissière**

Pseudocophora madoni Lab., 1940, Bull. Mus. Hist. Nat. Belg., 16(3) : 16 (Tonkin ; BRUXELLES).

Distribution : Vietnam.

The following specimen well agrees with the type of this species. However, this species might be a color variation of *flaveola* which is a very variable on the coloration of the ventral surfaces.

Material examined. "Indo-China", 1 ex. (BASEL).

***Pseudocophora nitens* Allard**

Pseudocophora nitens All., 1888 (1889), Ann. Soc. Ent. France, ser. 6, 8: 324 (Annam, Sumatra ; PARIS).

Distribution : Thailand, Laos, Vietnam, Sumatra.

Material examined. THAILAND : Chiangmai Prov., Chiangmai, 1 ex., 17. vi. 1965, P. D. Ashlock (BISHOP). LAOS : Vientiane Prov., Vientiane, 1 ex., 22. iii. 1966, Native collr ; Vientiane Prov., Ban Van Eue, 2 exs., 15. ix. 1967, 1 ex., 30. iii. 1967, Native collr (BISHOP). VIETNAM : Ban Me Thout, 500 m, 2 exs., 16-18. v. 1960, S. Quate (BISHOP).

***Pseudocophora pectoralis* Baly**

Pseudocophora pectoralis Baly, 1888, J. Linn. Soc., Zool., 20 : 169, 174 (Assam ; BM).—Jacoby, 1892, Ann. Mus. Civ. Genova, 32 : 958 (Burma).—Maulik, 1936, Fauna India, Galeruc. : 202, figs. (NE India).—Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B : 491, 492 (S. China).

Distribution : India, Burma, Indo-China, S. China.

Material examined. "Indo-China", 6 exs. (BASEL).

***Pseudocophora uniplagiata* Jacoby**

Pseudocophora uniplagiata Jac., 1884, Notes Leyd. Mus., 6 : 214 (Sumatra ; BM).—Baly, 1888, J. Linn. Soc., Zool., 20 : 169, 173 (Sumatra, Siam).—Allard, 1888 (1889), Ann. Soc. Ent. France, ser. 6, 8 : 324 (Sumatra).—Jacoby, 1893, Entomolog., 25 (Suppl.) : 108 (mentioned).—Laboissière, 1940, Bull. Mus. Hist. Nat. Belg., 16(3) : 14 (note).—Chôjô, 1964, Nature and Life in SE Asia, Kyoto, 3 : 298 (Thailand).

Pseudocophora femoralis Laboissière, 1940, Bull. Mus. Hist. Nat. Belg., 16(3) : 15 (Burma, Haut Tonkin : rivière Claire ; BRUXELLES). New **synonym**.

Distribution : Burma, Thailand, Sumatra.

Material examined. THAILAND : Chiangmai Prov., Chiangdao, 450 m, 2 exs., 5-11. iv. 1958, T. C. Maa (BISHOP); Kao Yai Nat. Park, 1 ex., 6. iv. 1965, Y. Miyatake (KU); Khon Kaen, 1 ex., 24. vii. 1980, 10 exs., 7. x. 1981, 3 exs., 8. x. 1981, S. Azuma (RU) ; Kanchanaburi, 1,300 ft., 4 exs., 21. v. 1962 (BANGKHEN). LAOS : Vientiane Prov., Ban Van Eue, 1 ex., 30. ix. 1965, 1 ex., 15. xi. 1966, 2 exs., 30. ix. 1967, Native collr ; Vientiane Prov., Gi Sion Vill., de Tha Ngone, 1 ex., 24-31. x. 1966, Native collr (BISHOP) ; Umgeb. Vientiane, 2 exs., iii-vi. 1963 ; Umgeb. Pakse, 1 ex., 1963 (MUNCHEN).

Genus *Aulacophora* Chevrolat

Aulacophora Chevr., 1837, in Dejean, Cat. Col., ed. 3 : 402 (type : *Galleruca quadraria* Olivier ; Java).—Chapuis, 1875, Gen. Col., 11 : 158.—Weise, 1886, Ins. Deutschl., 6(4) : 574.—Allard, 1888 (1889), Ann. Soc. Ent. France, ser. 6, 8 : 307.—Baly, 1889, Trans. Ent. Soc. London, 1889 : 297.—Laboissière, 1929, Ann. Soc. Ent. France, 98(3) : 256.—Maulik, 1936, Fauna India, Galeruc. : 169.—Chen & Kung, 1959, Acta Ent. Sinica, 9(4) : 273.—Chôjô, 1962, Phil. J. Sci., 91(1-2) : 14, 74.—Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B : 393, 482.—Kimoto, 1964, J. Fac. Agr. Kyushu Univ., 13(2) : 303.

Raphidopalapa Chevrolat, 1837, in Dejean, Cat. Col., ed. 3 : 402 (type : *Crioceris abdominalis*

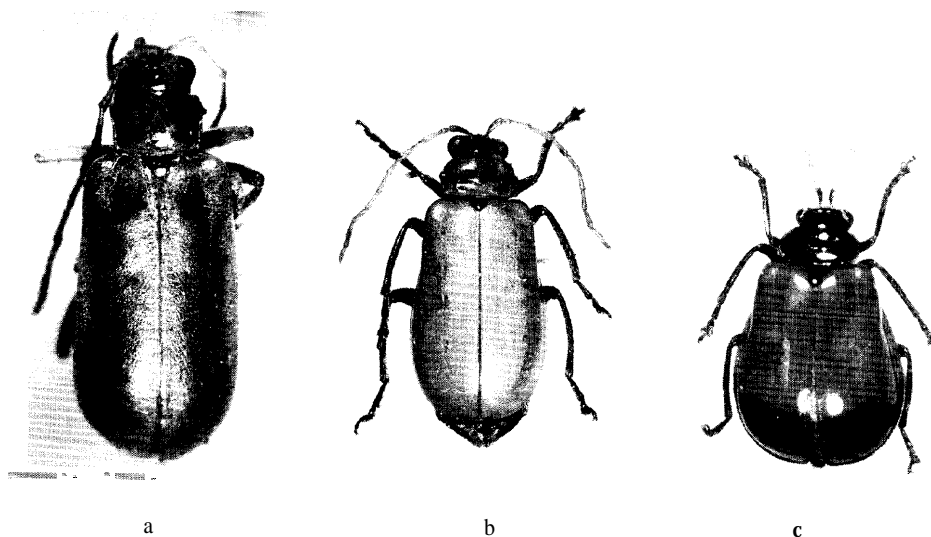


Fig. 14. a, *Haplosoma thailandica* n. sp. ; b, *Aulacophora coffeae* (Hornstedt) ; c, *A. luteicornis* (Fabricius).

Fabricius ; Europe).

Rhaphidopalpa Rosenhauer, 1856, Tiere Andulsia. . 325 (type : *Galleruca foveicollis* Lucas ; Europe).—Allard, 1888 (1889), Ann. Soc. Ent. France, ser. 6, 8 :307.—Ogloblin, 1936, Fauna USSR, 26, 1 : 19, 150, 370, 396.

Acuteipalpa Resenhauer, 1856, *ibid.* : 327.

Ceratia Chapuis, 1876, C. R. Soc. Ent. Belg., 19 : 100 (type : *Aulacophora marginalis* Chapuis ; Philippines).

Triaplatyps Fairmaire, 1877, Petit. Nouv. Ent., 2 : 186 (type : *Triaplatyps quadripartita* Fairmaire ; New Britain).

Pachypalpa Weise, 1892, Dtsche Ent. Z., 1892 : 392 (type : *Galeruca luteicornis* Fabricius ; Sumatra).—Laboissiere, 1929, Ann. Soc. Ent. France, 98(3) : 256.

Orthaulaca Weise, 1892, *ibid.* : 396 (type : *Galeruca similis* Olivier ; SE Asia).

Cerania Weise, 1892, *ibid.* : 396 (type : *Aulacophora cornuta* Baly ; SE Asia).—Laboissière, 1929, Ann. Soc. Ent. France, 98(3) : 256.

Spaerarthra Weise, 1892, *ibid.* : 396 (type : *Aulacophora cyanoptera* Boisduval ; New Guinea).

In this genus, it is almost impossible to correctly identify by the female specimens for some species.

Allard (1891, Nouv. Arch. Mus. Paris, ser. 3, 3 : 231, from Luang Prabang, and 1908, Miss. Pavie Indo-Chine, 3 : 160, from Cambodge) recorded *Aulacophora ioptera* (Wiedemann) from Indo-China. However, this species is not included in the text, because Baly (1889, Trans. Ent. Soc. London, 1889 : 301) had some question on Allard's identification of *ioptera*.

KEY TO SPECIES OF *Aulacophora*

- | | | |
|---|--|---|
| 1 | In female apex of fifth abdominal segment trilobed | 2 |
| | In female apex of fifth abdominal segment not trilobed | 3 |

- 2(1) Antenna filiform in both sexes ; yellowish brown, ventral surfaces black, scutellum pitchy brown, legs entirely yellowish brown ; length 6.3 mm *mouhoti*
 Antenna with apical segments incrassate in male ; coloration variable, 1) generally black, with lateral margin of pronotum and antenna yellowish brown ; 2) pronotum entirely blackish, 3) elytron entirely brownish, 4) dorsal surfaces entirely blackish, 5) entirely reddish brown ; length 8.4 mm *luteicornis*
- 3(1) Clypeus pale 4
 Clypeus blackish 14
- 4(3) First antennal segment broadened in male 5
 First antennal segment not broadened in male 6
- 5(4) In male, antennal scape broadened, interantennal area specially modified, and humerus not covered with erect hairs ; transverse sulcus of pronotum generally straight and sometimes interrupted in middle ; elytron with suture and margin brown ; generally yellowish brown, metathorax and abdomen blackish, legs pitchy black in various degrees, at least femora infuscate in most cases ; length 7.8-8.3 mm *cornuta*
 In male, antennal scape broadened but interantennal area not modified, and humerus covered with erect hairs ; in female pygidium produced posteriorly and sharply pointed at apex ; transverse furrow of pronotum strongly curved at middle ; generally yellowish brown, metathorax and abdomen blackish, with apex of the latter brownish, in some specimen legs blackish in various degrees; length 6.4-7.5 mm *indica*
- 6(4) In male, third to fifth antennal segments modified and vertical area of head with structures 7
 In male, third to fifth antennal segments not specially modified, but some times rather stout, and vertical area of head without structures 9
- 7(6) In male third antennal segment longer than broad, flat and subtriangular; **legs** entirely brownish 8
 In male third antennal segment much broader than long, blade-like internally, and vertical area of head on each side with a longitudinal excavation ; legs nearly black ; generally yellowish brown with elytron black, meso- and metathorax pitchy black ; length 5.7-6.0 mm *jacobyi*
- 8(7) In male, fourth antennal segment broader than long, quite flat, produced endoapically, and vertical area of head on each side with a strongly thickened transverse ridge ; generally yellowish brown with elytron black ; length 6.3-6.5 mm *palliat*
 In male, fourth antennal segment longer than broad, not very flat, incised apically and quite hairy around emargination, and vertical area of head on each side with a longitudinal excavation ; generally yellowish brown with elytron black ; length 5.6-5.8 mm *frontalis*
- 9(6) Ventral surfaces entirely yellowish brown 10
 Ventral surfaces of metathorax and abdomen black ; generally reddish to yellowish brown, elytron usually with three black markings (2:1), in some specimen these markings united, or with humeral markings only, legs brownish with femora infuscate in various degrees ; length 7.6-8.3 mm *bicolor*
- 10(9) Elytron not entirely brownish 11
 Elytron entirely yellowish brown ; generally yellowish brown, in some specimen scutellum partly infuscate ; length 6.3-6.8 mm *bhamoensis*

- 11(10) Elytron with transverse furrow or depression subbasally, and its lateral margin rather widely explanate 12
 Elytron without any distinct transverse furrow or depression subbasally, and its lateral margin rather narrowly explanate 13
- 12(11) In male apical segment of antenna incrassate, and its apex obliquely emarginate and armed with a short acute tooth ; generally reddish brown ; legs pitchy black, elytron black ; length 7.7-9.8 mm *an tennata*
 In male apical segment of antenna not incrassate ; generally yellowish brown ; elytron black with apical half yellowish to reddish brown, in some specimen brownish with three pairs of black markings, or black with apex brownish; length 6.8-8.0 mm *cruentata*
- 13(11) Elytron shining ; in male fifth abdominal segment longitudinally elevated and with a longitudinal deep sulcus in middle ; generally yellowish brown, elytron black ; length 5.3-6.0 mm *lewisii*
 Elytron opaque ; in male fifth abdominal segment flat and with a shallow longitudinal short sulcus basally ; generally yellowish brown, legs with tibiae and tarsi largely pitchy black, elytron black ; length 6.3-7.5 mm *opacipennis*
- 14(3) Vertex not entirely black, partly brownish 15
 Vertex entirely black ; yellowish brown with elytron, meso- and metathorax black ; length 5.1-5.7 mm *coomani*
- 15(14) In male second antennal segment normal 16
 In male second antennal segment enlarged apically ; generally black with head, pronotum and abdomen yellowish brown ; length 5.6-6.3 mm *nigripennis*
- 16(15) In male first segment of posterior leg normal, elongate, and median lobe of fifth abdominal segment flat ; femora of middle and posterior legs pitchy black 17
 In male first tarsal segment of anterior legs widened, round and median lobe of fifth abdominal segment longitudinally raised ; generally yellowish brown with metathorax, abdomen, tibiae and tarsi largely pitchy black to brown; length 6.5-7.0 mm *yunnanensis*
- 17(16) In male interstices of eyes narrower, subequal to the length of first antennal segment, antenna thickly covered by long hairs; body length longer; scutellum yellowish brown ; posterior legs almost entirely pitchy black to black ; generally yellowish brown, in most specimens vertex partly blackish ; length 8.0-8.7 mm *coffea*
 In male interstice of eyes wider, distinctly wider than the length of first antennal segment, antenna not thickly covered with long hairs ; body length shorter ; scutellum pitchy black ; posterior legs yellowish brown with femora pitchy black in various degrees ; generally yellowish brown, vertex always entirely yellowish brown, in some specimen elytron pitchy brown with lateral and apical margins broadly and suture narrowly yellowish brown ; length 6.5-7.0 mm *semifusca*

***Aulacophora antennata* Baly**

Aulacophora antennata Baly, 1886, J. Linn. Soc., Zool., 1886: 301 (Java, Singapore, Sarawak) ; 1889, Trans. Ent. Soc. London, 1889 : 301 (notes).

Distribution : Thailand, Singapore, Borneo, Java.

Material examined. THAILAND : Trang Prov., Water fall to Khaochang, 150-300 m, 2 exs., 3. i. 1964, G. A. Samuelson (BISHOP) ; Khao Chong, nr. Trung, 1 ex., 26. vi. 1965, Y. Miyatake (KU).

Aulacophora bhamoensis Jacoby

Aulacophora bhamoensis Jac., 1892, Ann. Mus. Civ. Genova, **32**: 944 (Burma; GENOVA).

—Maulik, 1936, Fauna India, Galeruc. : 172 (Burma).

Distribution : Burma, Thailand, Laos, Vietnam.

Material examined. THAILAND: Khao Yai Nat. Park, 1 ex., 6. vi. 1965, K. Morimoto ; Muak Lek, 40 km SE of Sara Buri, 1 ex., 5. vi. 1965, Y. Miyatake (KU). LAOS : Vientiane Prov., Ban Van Eue, 1 ex., 31. xii. 1968, Native collr ; Attopeu Prov., Houei Kong, 1 ex., 31. v. 1965, J. L. Gressitt ; Sayaboury Prov., Sayaboury, 1 ex., 16. iv. 1965, J. L. Gressitt (BISHOP). VIETNAM : Ban Me Thuot, 500 m, 1 ex., 16-18. v. 1960, S. Quate (BISHOP).

Aulacophora bicolor (Weber)

Galleruca bicolor Weber, 1801, Obs. Ent. : 56 (Sumatra).

Galleruca bicolor Fabricius, 1801 (nec Weber), Syst. Eleut., 1 : 482 (Sumatra).—Zimsen, 1964, Type

Material Fabricius : **108** (= **bicolor** Weber).

Galleruca haemorrhoea Fabricius, 1803, in Illiger, Mag. Ins., 2 : 293 (new name for **bicolor** Fabricius, 1801).—Zimsen, 1964, Type Material Fabricius : 108.

Galleruca sexpunctata Olivier, 1808, Entomologie, 6 : 627, fig. (Timor).

Aulacophora hemichora Gistel, 1857, Achthundert und zwanzig neue order unbeschriebene wirbellose Tiere : 28 (Java).—Strand, 1916, Archiv Naturg., 82 (A5) : 91 (Java).—Monrós & Bechyné, 1956, Ent., Arb. Mus. Frey, 7 : 1132 (= **bicolor**).

Aulacophora sexnotata Chapuis, 1876, C. R. Soc. Ent. Belg., 19 : 100 (Philippines).—Baly, 1886, J. Linn. Soc., Zool., 20 : 19 (as a var. of **bicolor** ; Ceylon, Celebes) ; 1889, Trans. Ent. Soc. London, 1889 : 300 (mentioned).—Weise, 1922, Tijdschr. Ent., 65 : 62 (= **sexpunctata**).

Aulacophora sexpunctata : Jacoby, 1884, Notes Leyden Mus., 6 : 213 (mentioned).—Allard, 1888 (1889), Ann. Soc. Ent. France, ser. 6, 8 : 314, 322 (Inde).—Schönfeldt, 1890, Ent. Nachr., 16(11) : 174 (Loo-Choo).—Duvivier, 1891, C. R. Soc. Ent. Belg., 35 : 146 (Java).

Aulacophora semiopaca Jacoby, 1886, Ann. Mus. Civ. Genova, 24 : 51 (Sumatra).—Baly, 1887, Ent. Monthly Mag., 23 : 268 (= **bicolor**).

Aulacophora bicolor : Baly, 1886, J. Linn. Soc., Zool., 20 : 3, 4, 19 (Sumatra, Java, Celebes, Gilolo, Flores, Philippines, Lombok).—Allard, 1889, Ann. Soc. Ent. France, ser. 6, 9 : 308 (Phnomh-Penh).—Baly, 1889, Trans. Ent. Soc. London, 1889 : 299 (mentioned).—Allard, 1891, Nouv. Arch. Mus. Paris, ser. 3, 3 : 230 (Luang-Prabang) ; **1904**, Miss. Pavie Indo-Chine, 3 : 159 (Cambodge).—Maulik, 1936, Fauna India, Galeruc. : 185, 187 (India, N. Andaman Is., Nicobars, Sumatra, Java, Formosa, Philippines).—Chen & Kung, 1959, Acta Ent. Sinica, 9 : 374, 393, fig. (China).—Chûjô, 1962, Phil. J. Sci., 91 : 77, 86 (Formosa).—Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B : 483, 484 (Hainan, N. Vietnam).—Kimoto, 1964, J. Fac. Agr. Kyushu Univ., 13 : 304 (Ryukyu Is.).—Kimoto & Gressitt, 1966, Pac. Ins., 8 : 477, 522 (Ryukyu Is.).—Kimoto, 1972, Tijdschr. Ent., 93(4) : 145 (Andaman).

Distribution : India, Ceylon, Andaman, Nicobar, Thailand, Cambodia, Laos, Vietnam, China, Hainan, Taiwan, Ryukyu Is., Philippines, Sumatra, Java, Celebes, Gilolo, Flores, Lombok, Timor.

Material examined. THAILAND : Chiangmai Prov., Chiangdao, 450 m, 14 exs., 5-11. iv. 1958, T. C. Maa (BISHOP). LAOS : Vientiane Prov., Ban Van Eue, 5 exs., 15-31. v. 1965, J. A. Rondon, 5 exs., 15-31. v. 1965, 2 exs., 31. vii. 1965, 2 exs., 30. ix. 1965, 1 ex., 30. xi. 1965, 1 ex., 15. xii. 1965, 1 ex., 18. i. 1966, 2 exs., 16. iii. 1966, 1 ex., 15. iv. 1966, 1 ex., 31. v. 1966, 1 ex., 15. vi. 1966, 1 ex., 15. xi. 1966, 1 ex., 15. ii. 1967, 1 ex., 30. ix. 1967, Native collr ; Vientiane Prov., Phou Kou Khoei, 1 ex., 31. v. 1966,

2 exs., 16. vi. 1966, Native collr; Sayaboury Prov., Sayaboury, 3 exs., 29. iii. 1966, Native collr (BISHOP); Umgeb. Vientiane, 14 exs., iii-vi. 1963; Umgeb. Pakse, 2 exs., 1964; Umgeb. Vanky, 1 ex., 1963; Umgeb. Pakse, 1 ex., 1963 (MUNCHEN).

Aulacophora coffeae (Hornstedt) Fig. 14b

Chrysomela coffeae Hornstedt, 1788, Schrift. Ges. Naturf. Freunde Berlin, 8 : 5, fig. (Java : Bantamschen Koffee Plantagen).

Aulacophora coffeae : Baly, 1886, J. Linn. Soc., Zool., 20 : 3 4, 18 (Java, Sumatra, Philippines, Tondano, Trigane, Cambodia, India).

Distribution : India, Thailand, Cambodia, Laos, Vietnam, Malaya, Sumatra, Java, Celebes, Philippines.

Material examined. THAILAND : Pakchong, 100 m, NE of Bangkok, 1 ex., 2. xii. 1957, J. L. Gressitt; Banna, 2 exs., 5-10. iv. 1958, T. C. Maa; Pakchong, 5 exs., 6. iii. 1963, 2 exs., 7. iii. 1963, 4 exs., 11. iii. 1964, Native collr; Nakoarnsawan, 1 ex., 4. viii. 1963, 1 ex., 12. ix. 1963, Native collr; Phu Kae, 1 ex., 8. iii. 1963, 1 ex., 30. vii. 1963, Native collr; Muak Lek, 1 ex., 6. iii. 1963, Native collr; Nakorn-nayok, 1 ex., 20. xi. 1963, Native collr; Kampaengpet, 1 ex., 11. ix. 1963, Native collr; Bang Khen, 1 ex., 11. ix. 1964, Native collr; Prachuabkirikhan, 1 ex., 12. vii. 1963, Native collr; Kanchanaburi, 1 ex., 10. viii. 1963, Native collr; Saraburi, 1 ex., 10. ix. 1963, Native collr (BISHOP); Loe, 1 ex., 6. ix. 1962; Rayong, 6 exs., 27. vii. 1962; Bangkok, Honburi, 1 ex., 15. xii. 1957, 1 ex., i. 30. 1958; Chanthaburi, 2 exs., 22. vii. 1962; Phetchabun, 1 ex., 17. iv. 1959 (BANGKHEN). LAOS : Vientiane Prov., Vientiane, 8 exs., 21. iv. 1965, J. A. Rondon, 1 ex., 25. iii. 1966, J. N. Sedlacek, 1 ex., 5. i. 1966, 20 exs., 21-22. ii. 1966, Native collr; Vientiane Prov., Dong Dok, 1 ex., 23. vii. 1965, 7 exs., 3. vi. 1965, 1 ex., 26. xi. 1965, 1 ex., 4. ii. 1966, 8 exs., 15. ii. 1966, 1 ex., 26. ii. 1966, Native collr; Vientiane Prov., Gi Sion Vill., de Tha Ngone, 2 exs., 10-24. x. 1965, 6 exs., 19-26. xii. 1965, 43 exs., 24-31. x. 1966, Native collr; Vientiane Prov., Tha Ngone, 8 exs., 6. xi. 1965, J. L. Gressitt, 2 exs., 19. viii. 1965, 1 ex., 20. xi. 1965, 3 exs., 25. xi. 1965, 2 exs., 21. xii. 1965, 1 ex., 2. ii. 1966, 1 ex., 23. ii. 1966, Native collr; Vientiane Prov., Phou Kou Khouei, 1 ex., 4. xii. 1965, 1 ex., 29. iii. 1966, Native collr; Vientiane Prov., Ban Van Eue, 1 ex., 11. iv. 1965, 3 exs., 15. xii. 1966, J. L. Gressitt, 15 exs., 1-15. v. 1965, J. A. Rondon, 1 ex., 15. vii. 1965, 3 exs., 31. vii. 1965, 1 ex., 31. viii. 1965, 2 exs., 30. ix. 1965, 2 exs., 30. xi. 1965, 1 ex., 15. xii. 1965, 3 exs., 16. iii. 1966, 2 exs., 29. iv. 1966, 1 ex., 31. v. 1966, 9 exs., 15. vi. 1966, 1 ex., 15. vii. 1966, 1 ex., 30. vii. 1966, 1 ex., 2. xi. 1966, 6 exs., 15. xi. 1966, 2 exs., 30. xi. 1966, 2 exs., 15. xii. 1966, 1 ex., 30. iii. 1967, 7 exs., 1-15. ix. 1967, 2 exs., 20. ix. 1967, 3 exs., 31. xii. 1967; Wapikhamthong Prov., Khong Sedone, Wapi, 2 exs., 15. vii. 1967, 44 exs., 15. ix. 1967, Native collr; Wapikhamthong Prov., Khong Sedone, 9 exs., 13. x. 1965, Native collr; Sayaboury Prov., Sayaboury, 1 ex., 15. i. 1966, J. L. Gressitt, 3 exs., 30. v. 1965, 5 exs., 3. viii. 1965, 17 exs., 6. xii. 1965, 2 exs., 15. i. 1966, 1 ex., 12. ii. 1966, 1 ex., 2. iii. 1966, 2 exs., 24. iii. 1966, 4 exs., 13. iv. 1966, 7 exs., 21. iv. 1966, 16 exs., 5. v. 1966, 8 exs., 20. v. 1966, Native collr; Sedone Prov., Paksong, 1 ex., 6. ix. 1965, 1 ex., 20. ix. 1965, Native collr; Sedone Prov., Pakse, 1 ex., iii. 1965, J. A. Rondon, 36 exs., 31. v. 1967, Native collr; Khammouane Prov., Phon Tiou, 1 ex., 28. iv. 1965, 1 ex., 30. iv. 1965, 3 exs., 17. v. 1965, 1 ex., 6. vii. 1965, 1 ex., 16. viii. 1965, 1 ex., 11. ix. 1965, Native collr; Borikhane Prov., Paksane, 1 ex., 31. viii. 1965, 2 exs., 1. xi. 1965, 4 exs., 5. xi. 1965, 2 exs., 8. ii. 1966, Native collr; Borikhane Prov., Pakkading, 3 exs., 15. ix. 1965, J. L. Gressitt; Borikhane Prov., Namkading nr. Pakkading, 1 ex., 21. iv. 1965, J. L. Gressitt; Attoupeu Prov., Houei Kong, 1 ex., 31. v. 1965, Native collr; Savanakhet Prov., Savanakhet, 1 ex., 20. vii. 1965, 6 exs., 15. ix. 1965, Native collr; Muong Sing, NW of Luang Prabang, 650 m, 1 ex., 6-10. vi. 1960, L. W. Quate; Nongteveda, 1 ex., 26. vii. 1965, 4 exs., 27. vii. 1965, 3 exs., 6. viii. 1965, 8 exs., 4. vi. 1965, 1 ex., 13. xi. 1965, 7 exs., 18. xi. 1965, 6 exs., 23. xi. 1965, 1 ex., 2. xii. 1965, 1 ex., 22. xii. 1965, 6 exs., 7. ii. 1966, 6

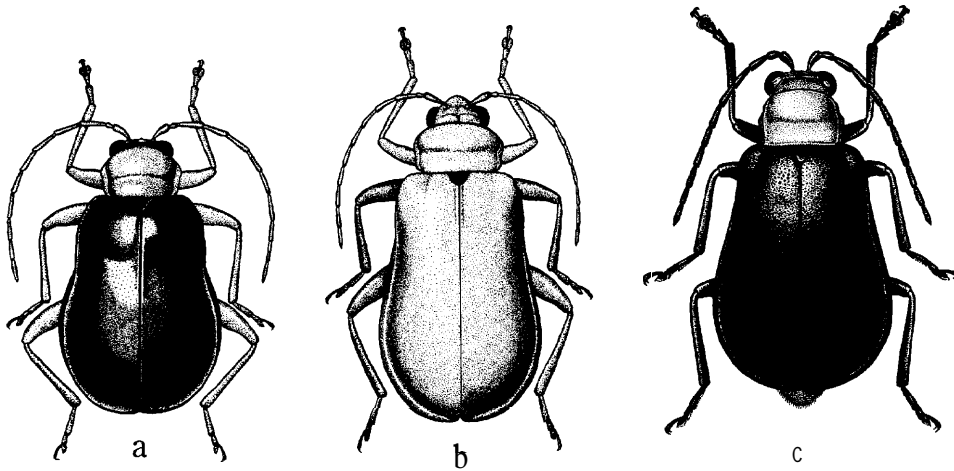


Fig. 15. a, *Aulacophora coomani* Laboissière ; b, *A. semifusca* Jacoby ; c, *A. nigripennis* Motschulsky.

exs., 19. i. 1966, Native collr; Tonpheng, 1 ex., 14. ix. 1965, 4 exs., 27. x. 1965, Native collr ; Ile de Khong, 1 ex., 6. ii. 1965, 1 ex., 24. viii. 1965, Native collr (BISHOP) ; Umgeb. Pakse, 3 exs., 1964 ; Umgeb. Vanky, 1 ex., 1963 ; Umgeb. Vientiane, 1 ex., 1963 (MUNCHEN). VIETNAM : Ba Don, Tay Ninh, 15 m, 4 exs., 7. vii. 1960, R. E. Leech (BISHOP).

***Aulacophora coomani* Laboissière Fig. 15a**

Aukzcophora coomani Lab., 1929, Ann. Soc. Ent. France, 98 : 257 (Tonkin ; HAMBURG).-Chen & Kung, 1959, Acta Ent. Sinica, 9(4) : 375, 380 (Vietnam).-Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B : 484, 485, fig. (China, N. Vietnam).

Distribution : Laos, Vietnam, China.

Material examined. LAOS : Vientiane Prov., Ban Van Eue, 1 ex., 15. xii. 1966, Native collr (BISHOP). VIETNAM : Diling (Djiring), 1 ex., 27. ix.-14. x. 1960, C. M. Yoshimoto (BISHOP).

***Aulacophora cornuta* Baly**

Aukzcophora cornuta Baly, 1879, Cist. Ent., 2 : 445 (Assam) ; 1886, J. Linn. Soc. London, 20 : 3, 5, 15 (Assam, Siam, Celebes, Ceram, Timor, Sulu Is., Flores).—Jacoby, 1884, Notes Leyden Mus., 6 : 212 (Sumatra) ; 1905, Ann. Mus. Civ. Genova, 41 : 496 (New Guinea, Fergusson Is.).-Baly, 1886, J. Linn. Soc., Zool., 20 : 3, 5, 15 (Assam, Celebes, Ceram, Timor, Sulu Is., Flores, Waigean, New Guinea).-Maulik, 1936, Fauna India Galeruc.: 186 (Malacca, Celebes, Siam).-Chen & Kung, 1959, Acta Ent. Sinica, 9(4) : 375, 382, fig. (Yunnan).-Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B : 483, 484, 486 (China).—Chûjô, 1964, Nature and Life in SE Asia, Kyoto, 3 : 286 (Thailand, Brunei).-Anand & Cox, 1986, Ent. Abh. Staatl. Dresden, 50(1) : 88 (India, Malacca, Celebes, Siam, Nias, Andaman Is.).

Aulacophora bicornuta Allard, 1888 (1889), Ann. Soc. Ent. France, ser. 6, 8 : 309, 320 (Sumatra).-Maulik, 1936, Fauna India, Galeruc. : 192 (= *cornuta*).

Aukzcophora* (*Cerania*) *cornuta : Laboissière, 1929, Ann. Soc. Ent. France, 98 : 258 (Tonkin).

Distribution : India, Andaman, Thailand, Laos, Vietnam, China, Malaya, Borneo, Sumatra, Nias, Java, Batu Is., Celebes, Ceram, Timor, Sulu, Flores, Waigean, New Guinea, Fergusson Is.

Material examined. THAILAND : Chiangmai Prov., Doi Suthep, 1 ex., 1-5. iv. 1958, T. C. Maa (BISHOP). LAOS : Vientiane Prov., Vientiane, 1 ex., 31. vii. 1965, Native collr ; Vientiane Prov., Ban Van Eue, 1 ex., 13. iv. 1965, J. L. Gressitt, 3 exs., 15-31. v. 1965, 3 exs., 15. vii. 1965, 1 ex., 30. ix. 1965, 9 exs., 30. xi. 1965, 1 ex., 30. vii. 1966, 3 exs., 15. xi. 1966, 3 exs., 1-15. ix. 1967, 1 ex., 15. x. 1967, Native collr ; Vientiane Prov., Phou Kou Khouei, 1 ex., 4. xii. 1965, Native collr ; Vientiane Prov., Gi Sion Vill., de Tha Ngone, 2 exs., 10-24. x. 1965, 1 ex., 6-13. iii. 1966, 1 ex., 24-31. x. 1966, Native collr ; Borikhane Prov., Pakkading, 1 ex., 13. vii. 1965, J. L. Gressitt, 1 ex., 31. viii. 1965, 1 ex., 9. ix. 1965, 3 exs., 15. ix. 1965, 1 ex., 1. xi. 1965, Native collr ; Sayaboury Prov., Sayaboury, 2 exs., 30. v. 1965, 1 ex., 14. vii. 1965, 1 ex., 30. ix. 1965, 8 exs., 30. xii. 1965, Native collr ; Wapikhamthong Prov., Wapi, 1 ex., 15. ix. 1967, Native collr ; Sedone, 1 ex., 13. x. 1965, Native collr ; Tonphen, 1 ex., 14. ix. 1965, 1 ex., 15. ix. 1965, 1 ex., 17. x. 1965, 1 ex., 30. viii. 1966, 1 ex., 15. x. 1966, Native collr ; Nongtavada, 1 ex., 6. viii. 1965, Native collr (BISHOP) ; Umgeb. Vientiane, 1 ex., iii-vi. 1963, 2 exs., iii-vi. 1964 ; Umgeb. Pakse, 5 exs., 1964 (MUNCHEN).

Aulacophora cruenta (Fabricius)

Chrysomela cruenta Fabr., 1781, Spec. Ins., 1 : 130 (India orientali) ; 1787, Mant. Ins., 1 : 75 (locality not cited).—Zimsen, 1964, Type Material Fabricius : 108.

Galleruca cmenta : Fabricius, 1792, Ent. Syst., 2 : 19 (E. Indies) ; 1801, Syst. Eleut., 1 : 483 (India orientali).

Galleruca rosea Fabricius, 1801, Syst. Eleut., 1 : 479 (Sumatra).—Zimsen, 1964, Type Material Fabricius : 107. New **synonymy**.

Galleruca variabilis Illiger, 1802, Mag. Ins. : 422 (locality not cited).—Maulik, 1936, Fauna India, Galeruc. : 196 (= *rosea*).

Aulacophora rosea : Chapuis, 1876, C. R. Soc. Ent. Belg., 19 : 99 (Philippines).—Baly, 1886, J. Linn. Soc., Zool., 20 : 2, 4, 9 (Sumatra, Java, Philippines, Malacca).—Allard, 1888 (1889), Ann. Soc. Ent. France, ser. 6, 8 : 310 (Java).—Jacoby, 1889, Ann. Mus. Civ. Genova, ser. 2, 7 : 206 (Burma).—Allard, 1891, Nouv. Arch. Mus. Paris, ser. 3, 3 : 231 (Luang Prabang) ; 1904, Miss. Pavie Indo-Chine, 3 : 160 (Siam, Chantaboun à Battanbang).—Maulik, 1936, Fauna India, Galeruc. : 186, 196 (Assam, Tenasserim, Penang, Perak, Siam, Java, Sumatra, Philippines).

Aulacophora albicornis Chapuis, 1876, C. R. Soc. Ent. Belg., 19 : 99 (Philippines).—Maulik, 1936, Fauna India, Galeruc. : 196 (= *rosea*).

Aulacophora tibialis Chapuis, 1876, C. R. Soc. Ent. Belg., 19 : 99 (Luzon, Mindoro).—Allard, 1888 (1889), Ann. Soc. Ent. France, ser. 6, 8 : 307 (Philippines).—Maulik, 1936, Fauna India, Galeruc. : 196 (= *rosea*).

Aulacophora uniformis Chapuis, 1876, C. R. Soc. Ent. Belg., 19 : 99 (Luzon).—Allard, 1888 (1889), Ann. Soc. Ent. France, ser. 6, 8 : 307 (Philippines).—Weise, 1913, Phil. J. Sci., ser. D, 8 : 222 (Philippines : Negros).—Maulik, 1936, Fauna India, Galeruc. : 196 (= *rosea*).

Aulacophora nigripeta Duvivier, 1885, Stett. Ent. Ztg., 46 : 389 (Ceylon).—Jacoby, 1887, Proc. 2001. Soc. London, 1887 : 103, fig. (Ceylon).—Weise, 1924, Col. Cat. Junk, 78 : 13 (= *cmenta*).

Aulacophora lata Baly, 1886, J. Linn. Soc., Zool., 20 : 2, 4, 8 (Ceram, Macassar, Celebes, Gilolo, Bachian).—Allard, 1888 (1889), Ann. Soc. Ent. France, ser. 6, 8 : 311 (Celebes).—Weise, 1922, Tijdschr. Ent., 65 : 62 (Celebes).—Maulik, 1936, Fauna India, Galeruc. : 196 (= *rosea*).

Aulacophora biguttata Allard, 1888 (1889), Ann. Soc. Ent. France, ser. 6, 8 : 313, 322 (Ceylon).—Weise, 1924, Col. Cat. Junk, 78 : 13 (as ab. of *cruenta*).

Aulacophora quadripunctata Allard, 1888 (1889), Ann. Soc. Ent. France, ser. 6, 8 : 314, 322 (Ceylon).

—Weise, 1924, Col. Cat. Junk, 78 : 13 (= **cmenta**).

Aulacophora uniformis ab. **bipunctata** Weise, 1913, Phil. J. Sci., ser. D, 8(3) : 222 (Philippines: Negros).

Ceratia (*Orthaulaca*) **mea** : Weise, 1922, Tijdschr. Ent., 65 : 62 (Borneo ; ab. **Zata**).

Aulacophora stigmatica Weise, 1924, Col. Cat. Junk, 78 : 16 (new name for *Aulacophora bipunctata* Weise, 1913, nec Olivier, 1808).

Aulacophora tonkinensis Laboissière, 1929, Ann. Soc. Ent. France, 98 : 255 (Tonkin ; HAMBURG).

—Chen & Kung, 1959, Acta Ent. Sinica, 9(4) : 375, 381 (= *cruenta*).—Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B : 486 (= *cruenta*).—Chûjô, 1964, Nature and Life in SE Asia, Kyoto, 3 : 288 (Thailand).

Aulacophora cmenta : Maulik, 1936, Fauna India, Galeruc. : 187, 194 (S. India, Ceylon).—Chen & Kung, 1959, Acta Ent. Sinica, 9(4) : 375, 381, fig. (Hainan).—Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B : 483, 486 (Hainan, N. Vietnam).

Distribution : India, Ceylon, Burma, Thailand, Laos, Vietnam, Hainan, Philippines, Malaya, Sumatra, Java, Celebes, Ceram, Macassar, Celebes, Gilolo, Bachian.

There is no reason to separate *rosea* from **cmenta**. This species is very variable on the markings of elytron. Those are, 1) ground color reddish brown with blackish markings, 2) basal half blackish and apical half reddish brown, 3) blackish with apical margin narrowly reddish brown. Except for two Laos specimens belonging to the type **2**, the rest of them belongs to the type **1**.

Material examined. THAILAND : Trang Prew., Khaophapha, Khaochang, 200-400 m, 2 exs., loc. ii. 1965 G. A. Samuelson; Chanthaburi, Prov, 45 m, 1 ex., 24. iv.-1. v. 1958, T. C. Maa ; S. Banna, Nakhon, 108 m, 1 ex., 5-10. v. 1958, T. C. Maa; Kanchanaburi, 1 ex., 15. viii. 1964, Native collr ; Khao Yai, 1 ex., 12. viii. 1963, Native collr ; Saraburi, 1 ex., 16. ix. 1964, Native collr (BISHOP) ; Lahkon Si Thamarat, 1 ex., vii. 1961 ; Rayong, 1 ex., 17. vii. 1961 (BANGKHEN). LAOS : Khamouane Prov., Phon Tiou, 2 exs., 30. iv. 1965, 1 ex., 17. v. 1965, 1 ex., 6. vii. 1965, 1 ex., 4. viii. 1965, 1 ex., 1. ix. 1965, Native collr ; Borikhane Prov., Pakkading, 1 ex., 30. vi. 1966 ; Borikhane Prov., Paksane, 1 ex., 28. ix. 1965 ; Tonpheng, 1 ex., 30. x. 1965 ; Ile de Khong, 1 ex., 20. vii. 1965, Native collr (BISHOP) ; Umgeb. Vientiane, 2 exs., iii-vi. 1963 ; Umgeb. Vanky, 1 ex., 1963 ; Umgeb. Paklay, 1 ex., 1963 (MUNCHEN).

Aulacophora frontalis Baly

Aulacophora frontalis Baly, 1888, J. Linn. Soc., Zool., 20 : 176, 181 (Borneo, Sarawak ; BM)

—Jacoby, 1892, Ann. Mus. Civ. Genova, 32 : 942 (mentioned).—Bowditch, 1914, Psyche, 21 : 134 (mentioned).—Maulik, 1936, Fauna India, Galeruc.: 176, 183, fig. (India, Ceylon, Siam, Philippines).—Chen & Kung, 1959, Acta Ent. Sinica, 9(4) : 375, 381, fig. (China).—Chûjô, 1961, Nature and Life in SE Asia, Kyoto, 1 : 350 (Cambodia) ; 1962, Phil. J. Sci., 91(1-2) : 77, 96 (Formosa).—Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B : 484, 487 (China, N. Vietnam).—Chûjô, 1964, Nature and Life in SE Asia, Kyoto, 3 : 287 (Thailand, Cambodia).

Aulacophora palliata : Allard, 1889, Ann. Soc. Ent. France, ser. 6, 9 : 308 (Hue, Saigon, Mutho, Pnomh-Penh, Tourane, Qui-Nhon) ; 1891, Nouv. Arch. Mus. Paris, ser. 3, 3 : 230 (Luang Prabang) ; 1904, Miss. Pavie Indo-Chine, 3 : 160 (Cambodge).—Laboissière, 1934, Ann. Ass. Nat. Levallois-Perret, 21 : 140 (corrected as *frontalis*).

Aulacophora (*Ceratia*) **frontalis** : Laboissière, 1929, Ann. Soc. Ent. France, 98 : 258 (Tonkin, Cambodia, Saigon, Java).

Ceratia frontalis : Bryant, 1929, Bull. Raffles Mus., 2 : 90 (Mentawai ; Siberut, Padong).

Distribution : India, Ceylon, Thailand, Cambodia, Laos, Vietnam, China, Taiwan, Mentawai,

Borneo, Java, Philippines.

Material examined. THAILAND : Cholburi Prov., Sriracha Distr., 1 ex., '22. x. 1966, J. L. Gressitt ; Banna, Chanwang nr. Nabon, 70 m, 1 ex., 5. ix. 1958, J. L. Gressitt ; Patumthani, 2 exs., 10. vii. 1964, Native collr (BISHOP). CAMBODIA : Ph. Chisau, 40 km, S. of P. Penh, 20 m, 1 ex., 29. iv. 1961, N. R. Spencer (BISHOP). LAOS : Vientiane Prov., Vientiane, 2 exs., 4. viii. 1965, Native collr ; Vientiane Prov., Gi Sion Vill., de Tha Ngone, 2 exs., 6. ix. 1965, 1 ex., 10-24. x. 1965, Native collr ; Sedone Prov., Pakse, 1 ex., 5. vii. 1965, 1 ex., 31. v. 1967, Native collr ; Borikhane Prov., Paksane, 1 ex., 28. viii. 1965, 1 ex., 9. ix. 1965, 1 ex., 1. xi. 1965, Native collr ; Khammouane Prov., Phon Tiou, 1 ex., 14. viii. 1965, 1 ex., 28. ix. 1965, Native collr ; Houei Kong, 1 ex., 7. x. 1965, Native collr ; Dong Dok, 2 exs., 23. viii. 1965, Native collr (BISHOP) ; Umgeb. Vientiane, 1 ex., iii-vi. 1963 ; Umgeb. Paklay, 1 ex., 1963 ; Umgeb. Vanky, 2 exs., 1963 (MUNCHEN). VIETNAM : Quang Tri, 2 km N., 1 ex., 8. v. 1970, A. R. Gillogly ; Ninh Hoa, N. of Nha Trang, 1 ex., 28. xi. 1960, C. M. Yoshimoto ; Blao (Balao), 600 m, 1 ex., 14-21. x. 1960, C. M. Yoshimoto (BISHOP).

Aulacophora indica (Gmelin)

Crioceris indica Gmelin, 1790, ed. Linnaeus, Syst. Nat., ed. 13, 1, 4 : 170 (India).

Crioceris testacea Fabricius, 1792, Ent. Syst., 1, 2 : 4 (India orientali).-Laboissiere, 1940, Bull. Mus. Hist. Nat. Belg., 16(3) : 10 (= *indica*).

Galeruca similis Olivier, 1808, Entomologie, 6 : 624, fig. (Iles de L'Ocean Indien). New synonym.

Raphidopalpa femoralis Motschulsky, 1857, Etud. Ent., 6 : 37 (Japan).-Baly, 1886, J. Linn. Soc., Zool., 20 : 16 (= *similis*).—Weise, 1892, Dtsche Ent. Z., 1892 : 395 (Philippines).-Okamoto, 1924, Bull. Agr. Expt. Stat. Chosen, 1(2) : 194 (Korea, Quelpart I.).—Laboissière, 1932, Result. Sci. Voy. Ind. Orient. Neerl., 4(4) : 151 (Japan, Coree, Chine).-Ogloblin, 1936, Fauna URSS, 26, 1 : 154, 396, fig. (Korea, ?N. China).-Laboissike, 1940, Bull. Mus. Hist. Nat. Belg., 16(3) : 12 (Japan, Chine, Tonkin, Malacca, Andaman, Nicobar).—Anand & Cox, 1986, Ent. Abh. Staatl. Mus. Dresden, 50(4) : 85 (= *similis*).

Aulacophora testacea : Baly, 1878, Cist. Ent., 2 : 445 (Assam).-Anand & Cox, 1986, Ent. Abh. Staatl. Mus. Dresden, 50(4) : 90 (India).

Aulacophora similis : Baly, 1886, J. Linn. Soc., Zool., 20 : 3, 5, 16 (Manchuria, Japan, N. India, China, Canton, Cochin China, Malay Archipelago).-Allard, 1888 (1889), Ann. Soc. Ent. France, ser. 6, 9 : 308 (Hue, Saigon, Myuthe, Pnomh-Penh, Lourane, Qui-Nhon).-Jacoby, 1889, Ann. Mus. Civ. Genova, ser. 2, 7 : 206 (Burma) ; 1896, *ibid.*, 36 : 458 (Sumatra).-Weise, 1916, Ark. Zool., 10(20) : 38, note (notes).-Maulik, 1929, Insects of Samoa, 4(3) : 193 (Samoa ; Malay Archipelago to China and Japan, and to Australia).-Laboissiere, 1934, Ann. Ass. Nat. Levallois-Perret, 21 : 140 (Indochina).-Gressitt, 1957, Insects of Micronesia, 17(1) : 22, 28, fig. (Micronesia).—Chûjô, 1962, Phil. J. Sci., 9(1-2) : 77, 82, fig. (Formosa).

Aulacophora flavipes Jacoby, 1883, Notes Leyden Mus., 5 : 202 (Saleyar).-Baly, 1886, J. Linn. Soc., Zool., 20 : 17 (= *similis*).

Raphidopalpa coffeae : Allard, 1888 (1889), Ann. Soc. Ent. France, ser. 6, 8 : 306, 319 (Japan).—Weise, 1892, Dtsche Ent. Z., 1892 : 395 (= *similis*).

Raphidopalpa testacea : Allard, 1888 (1889), Ann. Soc. Ent. France, ser. 6, 8 : 308, 320 (Celebes).

Raphidopalpa abdominalis : Allard, 1889, Ann. Soc. Ent. France, ser. 6, 9 : 308 (Pnomh-Penh).—Laboissière, 1934, Ann. Ass. Nat. Levallois-Perret, 21 : 140 (= *similis*).

Raphidopalpa bengalensis Weise, 1892, Dtsche Ent. Z., 1892 : 394 (Calcutta).—Laboissière, 1940, Bull. Mus. Hist. Nat. Belg., 16(3) : 10 (= *indica*).

Orthaulaca similis : Weise, 1892, Dtsche Ent. Z., 1892 : 393 (Nias).—Weise, 1916, Arkiv Zool., 10 :

38 (notes).

Raphidopalpa similis : Allard, 1891, Nouv. Arch. Mus. Paris, ser. 3, 3 : 230 (Luang-Prabang).
-Duvivier, 1892, Ann. Soc. Ent. Belg., 36 : 430 (Chota-Nangpore).-Jacoby, 1903, *ibid.*, 47 : 116 (India).-Allard, 1904, Miss. Pavie Indo-Chine, 3 : 159 (Cambodge).-Bryant, 1929, Bull. Raffles Mus., 2 : **90** (Mentawai : Siberut).

Rhuphidopalpa chinensis Weise, 1892, Dtsche Ent. Z., 1892 : 395 (Shanghai ; ZMB).-Laboissière, 1932, Result. Sci. Voy. Ind. Orient. Neerl., 4(4) : 151 (Chine merid., Tonkin, Yunnan) ; 1934, Ann. Ass. Nat. Levallois-Perret, 21 : 140 (Indo-China).-Ogloblin, 1936, Fauna URSS, 26, 1 : 153, 396 (China, Mongolia, Annam).-Laboissière, 1940, Bull. Mus. Hist. Nat. Belg., 16(3) : 13 (China, Indochina, Siam, Mallaca).-Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B : 486 (= *femoralis*).

Rhuphidopalpa indica : Laboissière, 1932, Result. Sci. Voy. Ind. Orient. Neerl., 4(4) : 151 (India) ; 1940, Bull. Mus. Hist. Nat. Belg., 16(3) : 10, 12, figs. (India, Iles Andaman).

Aulacophora foveicollis : Maulik, 1936, Fauna India, Galeruc. : 173, figs. (in part ; India, Ceylon, Burma, Andaman Is.).-Laboissière, 1940, Bull. Mus. Hist. Nat. Belg., 16(3) : 10 (India).-Chûjô, 1959, Sci. Rep. Agr. Exped. Cambodia, Hyogo Univ. Agr., Japan, (2) : 60 (Cambodia).

Aulacophora femoralis : Chûjô, 1941, Trans. Nat. Hist. Soc. Formosa, 31 : 157 (Japan proper, Loochoo, Quelpart Is., Korea).-Chen & Kung, 1959, Acta Ent. Sinica, 9 : 375, 385 (Taiwan, Japan, ? Korea).-Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B : 483, 486, fig. (China, Hainan, N. Vietnam, Korea).-Kimoto, 1964, J. Fac. Agr. Kyushu Univ., 13 : 304, 305 (Japan, Ryukyu Is.).
-Kimoto & Gressitt, 1966, Pac. Ins., 8 : 477, 523 (Ryukyu Is.).-Kimoto, 1972, Tijdschr. Ent., 93(4) : 145 (Cochinchina).

Aulacophora femoralis chinensis : Chen & Kung, 1959, Acta Ent. Sinica, 9 : 375, 384, fig. (China).

Aulacophora chinensis : Chûjô, 1961, Nature and Life in SE Asia, Kyoto, 1 : 350 (Cambodia, Thailand) ; 1964, *ibid.*, 3 : **285** (Thailand).

Aulacophora indica : Kimoto, 1970, Khumbu Himal, 3(3) : 416 (Nepal).-Kimoto & Takizawa, 1972, Kontyû, Tokyo, 40(4) : 216 (Nepal).-Kimoto, 1977, Ent. Basiliensia, 2 : 354 (Bhutan).
-Kimoto & Takizawa, 1981, Ent. Rev. Japan, 35(1-2) : 59 (Nepal).

Distribution : India, Ceylon, Burma, Nepal, Bhutan, Andaman, Nicobar, Thailand, Cambodia, Laos, Vietnam, Hainan, China, Taiwan, Philippines, Ryukyu Is., Japan, Korea, Siberia, Sunda Is., Micronesia, New Guinea, Samoa, Fiji.

Laboissière (1932) treated the material taken from India as *indica*, ones from S. China, Yunnan and Tonkin as *chinensis*, and ones from Japan, Korea and China as *femoralis*. According to the study on the materials taken from these areas, it came to conclusion that it is not necessary to separate these three species. Also, Chen & Kung (1959) treated *chinensis* as a subspecies of *femoralis*. However, in central China, these two forms distribute in same areas. The color of legs is somewhat variable.

Material examined. THAILAND : Chiengami Prov., Fang, 600 m, 2 exs., 14. vi. 1965, P. D. Ashlock ; Chiengami Prov., Mae Klang, 340 m, 1 ex., 11. vi. 1965, P. D. Ashlock ; Chiengmai Prov., Chieng Dao, 1 ex., 15. vi. 1965, P. D. Ashlock ; Saraburi Prov., Ban Muak Lek Nat. Park, 1 ex., 5. vi. 1965, P. D. Ashlock ; Pantumthani, 7 exs., 10. ii. 1964, 3 exs., 10. vii. 1964, Native collr ; Kampaenget, 10 exs., 10-11. ix. 1963, Native collr ; Pak Chong, 5 exs., 11. v. 1964, Native collr ; Nakoransawan, 4 exs., 12. ix. 1963, Native collr ; Bang Khen, 1 ex., 10. viii. 1964, 1 ex., 9. ix. 1963, Native collr ; Si Racha, 2 exs., 21. viii. 1963, Native collr ; Pang-nga, 1 ex., 10. iv. 1963, Native collr ; Prachuabkirikhan, 1 ex., 16. vii. 1963, Native collr ; Khonkaen, 1 ex., 22. ix. 1964, Native collr ; Trat, 1 ex., 10. vii. 1963, Native collr ; Kanchanaburi, 1 ex., 6. vii. 1964, Native collr ; Phliu, 1 ex., 23. iv. 1963, Native collr (BISHOP) ; Chiengmai Prov., Fang, 1 ex., 13. vi. 1965, K. Morimoto (KU) ; Bangkok, 27 exs., 7. ii. 1956, 3 exs., 14. iv. 1959, 2 exs., 10. ix. 1961 ; Chiengmai, 7 exs., 20. viii. 1961, Udon Thani, 4 exs.,

25. x. 1958 ; Rayong, 9 exs., 27. vii. 1962, Chanthaburi, 1 ex., 22. vii. 1962 ; Nakhon Ratchasima, 2 exs., 26. vii. 1959, Tak, 2,800 ft., 1 ex., 20. viii. 1961 (BANGKHEN). CAMBODIA : Damrey Phong, 2 exs., 14-16. iv. 1961, N. R. Spencer (BISHOP). LAOS : Umgeb. Vientiane, 5 exs., iii-vi. 1963 ; Umgeb. Pakse, 1 ex., 1963 ; Umgeb. Paklay, 5 exs., 1963 ; Umgeb. Vanky, 1 ex., 1963 (MUNCHEN) ; Borikhane Prov., Pakkading, 2 exs., 23. iv. 1965, 1 ex., vi. 1965, 3 exs., 13. vii. 1965, 176 exs., 15. x. 1965, 96 exs., x. 1965, J. L. Gressitt, 1 ex., 22. iii. 1965, 1 ex., 10. v. 1965, 3 exs., 14. vii. 1965, 5 exs., 3. viii. 1965, 91 exs., 15-31. viii. 1965, 43 exs., 9. ix. 1965, 1 ex., 26. iii. 1966, 5 exs., 5. v. 1966, 1 ex., 13. v. 1966, Native collr ; Namkading, nr. Pakkading, 100 m, 1 ex., 25. iv. 1965, J. L. Gressitt ; Borikhane Prov., Paksane, 3 exs., 7. viii. 1965, 3 exs., 17. viii. 1965, 1 ex., 31. viii. 1965, 2 exs., 9. ix. 1965, 1 ex., 28. ix. 1965, 1 ex., 19. xi. 1965, 1 ex., 3. xii. 1965, 1 ex., 8. xii. 1965, 2 exs., 28. xii. 1965, 1 ex., 15. viii. 1967, Native collr ; Sedon Prov., Paksong, 6 exs., 6. ix. 1965, Native collr ; Sedon Prov., Pakse, 1 ex., 12. v. 1965, 7 exs., v. 1965, P. D. Ashlock, 1 ex., 30. viii. 1965, 5 exs., 31. v. 1967, 3 exs., 15. viii. 1967, Native collr ; Khammouane Prov., Phon Tiou, 3 exs., 1-15. iv. 1965, J. L. Gressitt, 6 exs., 10-11. vi. 1965, N. Wilson, 13 exs., 28. iv. 1965, 14 exs., 30. iv. 1965, 1 ex., 17. v. 1965, 1 ex., 28. v. 1965, 52 exs., 6. vii. 1965, 34 exs., 4. viii. 1965, 31 exs., 14. viii. 1965, 14 exs., 16. viii. 1965, 214 exs., 18. viii. 1965, 97 exs., 28. ix. 1965, 27 exs., 11. xi. 1965, 6 exs., 8. iii. 1966, Native collr ; Vientiane Prov., Vientiane, 1 ex., 31. v.-3. vi. 1960, S. Quate & L. Quate, 17 exs., 21. iv. 1965, J. A. Rondon, 2 exs., 28. vii. 1965, 5 exs., 31. vii. 1965, 1 ex., 2. viii. 1965, 3 exs., 3. viii. 1965, 1 ex., 15. iii. 1966, 3 exs., 21. iii. 1966, 1 ex., 22. iii. 1966, 1 ex., 25. iii. 1966, Native collr ; Vientiane Prov., Ban Van Eue, 2 exs., 13. iv. 1965, J. L. Gressitt, 10 exs., 15-31. v. 1965, J. A. Rondon, 43 exs., 15-31. v. 1965, 3 exs., 15. vii. 1965, 13 exs., 31. vii. 1965, 15 exs., 15. viii. 1965, 20 exs., 30. ix. 1965, 6 exs., 30. xi. 1965, 1 ex., 2. iii. 1966, 9 exs., 16. iii. 1966, 4 exs., 15. iv. 1966, 1 ex., 29. iv. 1966, 3 exs., 31. v. 1966, 3 exs., 15. vi. 1966, 7 exs., 15. xi. 1966, 4 exs., 15. xii. 1966, 1 ex., 31. i. 1967, 1 ex., 30. iii. 1967, 6 exs., 30. iii. 1967, 31 exs., 1-15. ix. 1967, 2 exs., 30. ix. 1967, 3 exs., 31. xii. 1968, Native collr ; Vientiane Prov., Dong Dok, 3 exs., 23. vii. 1965, 8 exs., 30. vii. 1965, 2 exs., 7. ix. 1965, 2 exs., 22. ix. 1965, 1 ex., 28. ix. 1965, 2 exs., 30. ix. 1965, 1 ex., 3. xi. 1965, 1 ex., 22. xi. 1965, 1 ex., 1. xii. 1965, 2 exs., 6. xii. 1965, 1 ex., 22. xii. 1965, 1 ex., 8. i. 1966, Native collr ; Vientiane Prov., Tha Ngone, 5 exs., 19. viii. 1965, 5 exs., 1. ix. 1965, 11 exs., 6. ix. 1965, 3 exs., 11. ix. 1965, 1 ex., 16. ix. 1965, 1 ex., 20. ix. 1965, 7 exs., 23. ix. 1965, 1 ex., 25. ix. 1965, 2 exs., 20. xi. 1965, 1 ex., 25. xi. 1965, 1 ex., 30. xi. 1965, 2 exs., 3. i. 1966, 1 ex., 2. ii. 1966, Native collr ; Vientiane Prov., Gi Sion Vill., de Tha Ngone, 30 exs., 10-24. x. 1965, 19 exs., 24-31. x. 1966, Native collr ; Vientiane Prov., Phou Ko Khouei, 1 ex., 30. i. 1966, Native collr ; Wapikhamthong Prov., Khong Sedone, 1 ex., 30. v. 1965, 11 exs., 17. vii. 1965, 2 exs., 13. viii. 1965, Native collr ; Wapikhamthong Prov., Wapi, 3 exs., 15. x. 1967, Native collr ; Sayaboury Prov., Sayaboury, 2 exs., 15. iv. 1965, J. L. Gressitt, 1 ex., 21. iv. 1966, J. A. Rondon, 1 ex., 23. iv. 1965, 25 exs., 5. v. 1965, 3 exs., 8. v. 1965, 2 exs., 17. v. 1965, 4 exs., 1 ex., 14. vii. 1965, 3 exs., 3. viii. 1965, 3 exs., 6. xii. 1965, 1 ex., 14. xii. 1965, 1 ex., 12. ii. 1966, 2 exs., 2. iii. 1966, 1 ex., 20. iii. 1966, 1 ex., 13. iv. 1966, 6 exs., 21. iv. 1966, 2 exs., 20. v. 1966, 2 exs., 30. ix. 1966, Native collr ; Attepeu Prov., Houei Kong, 1 ex., 7. ii. 1965, 1 ex., 16. v. 1965, 1 ex., 31. v. 1965, Native collr ; Houa Khong Prov., Houei Sai, 1 ex., 30. iii. 1965, Native collr ; Ban Theuong, 18 km NW of Xieng Khouang, 1,035 m, 1 ex., 2-6. viii. 1960, N. R. Spencer ; Savanakhet, 1 ex., 29. ii. 1967, Native collr ; Tonpheng, 1 ex., 30. iv. 1965, 4 exs., 14. ix. 1965, 3 exs., 30. ix. 1965, 30 exs., 30. x. 1965, 1 ex., 30. vi. 1965, 1 ex., 30. i. 1966, 2 exs., 15. ii. 1966, 1 ex., 30. iv. 1966, 1 ex., 15. vi. 1966, Native collr ; Île de Khong, 2 exs., 12. xi. 1965, Native collr (BISHOP). VIETNAM : Ba Den Tay Ninh, 1 ex., 7. vii. 1960, R. E. Leech ; Dalat, 6 km S., 1,400-1,500 m, 1 ex., 9. vi.-7. vii. 1961, N. R. Spencer ; Lha Ho, 14 km N., Phan Rang, 2 exs., 15. xi. 1960, C. M. Yoshimoto ; Quant Tri, 2 km N., 1 ex., 14. i. 1970, 2 exs., 8. vi. 1970, A. R. Gillogly (BISHOP).

Aulacophora jacobyi (Weise)

Aulacophora denticomis Jacoby, 1896 (Dec.), Ann. Mus. Civ. Genova, 37 : 137 (nec Blackburn, 1896) (Mentawai, Tenasserim).

Ceratia (Ceratia) jacobyi Weise, 1924, Col. Cat. Junk, 78: 10 (new name for **denticomis** Jacoby).

Aulacophora (Ceratia) jacobyi : Laboissière, 1929, Ann. Soc. Ent. France, 98 : 258 (Tonkin).

Aulacophora jacobyi : Maulik, 1936, Fauna India, Galeruc. : 176, 184, fig. (India, Java, Penang, Mentawe Is.).-Chen & Kung, 1959, Acta Ent. Sinica, 9(4) : 375, 381, fig. (Hainan, Yunnan).—Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B : 484, 488 (N. Vietnam).—Chûjô, 1964, Nature and Life in SE Asia, Kyoto, 3 : 287 (Thailand).

Distribution : India, Burma, Thailand, Cambodia, Vietnam, China, Hainan, Malaya, Mentawai, Java.

Material examined. THAILAND : Trang Prov., Khaophapha, Khaochong, 200-400 m, 3 exs., 2-3. i. 1964, 2 exs., 10-11. i. 1964, G. A. Samuelson (BISHOP). CAMBODIA : Kiri Rom, 700 m, 1 ex., 31. iii.-7. iv. 1961, N. R. Spencer (BISHOP).

Aulacophora lewisii Baly

Aulacophora lewisii Baly, 1886, J. Linn. Soc., Zool., 20 : 5, 24 (China ; BM) ; 1888, *ibid.*, 22 : 179 (India, China, Malay Archipelago) ; 1889, Trans. Ent. Soc. London, 1889 : 301 (mentioned).-Duvivier, 1892, Ann. Soc. Ent. Belg., 36 : 430 (India : Mandar).-Chen, 1959, Acta Ent. Sinica, 9(4) : 375, 378 (Hong Kong, India).-Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B : 484, 488 (China, N. Vietnam).-Kimoto, 1964, J. Fac. Agr. Kyushu Univ., 13 : 304, 305 (Japan, Ryukyu Is.).—Chûjô, 1964, Nature and Life in SE Asia, Kyoto, 3 : 288 (Thailand).-Kimoto & Gressitt, 1966, Pac. Ins., 8 : 477, 523 (Ryukyu Is.).-Kimoto, 1977, Ent. Basiliensis, 2 : 354 (Bhutan).

Orthaulaca (Ceratia) cattigarensis Weise, 1892, Dtsche Ent. Z., 2 : 942 (India).-Maulik, 1936, Fauna India, Galeruc. : 181 (India, Ceylon, Burma).-Chen & Kung, 1959, Acta Ent. Sinica, 9(4) : 375 (= *cattigarensis*).—Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B : 488 (= **Zewisii**).

Aulacophora intermedia Jacoby, 1892, Ann. Mus. Civ. Genova, 2(12) : 398 (China, Japan ; ZMB).—Kimoto, 1964, J. Fac. Agr. Kyushu Univ., 13 : 305 (= **Zewisii**).

Aulacophora (Ceratia) cattigarensis : Laboissière, 1929, Ann. Soc. Ent. France, 98(3) : 258, fig. (Tonkin, Cochinchine).

Aulacophora cattigarensis : Ogloblin, 1936, Fauna URSS, 26(1) : 156, 397, fig. (Japan, China, Annam, Tonkin, Cochinchina).-Chen & Kung, 1959, Acta Ent. Sinica, 9(4) : 375, 379, fig. (China).—Chûjô, 1962, Phil. J. Sci., 91(1-2) : 78, 99, fig. (Formosa).

Distribution : India, Ceylon, Burma, Bhutan, Thailand, Cambodia, Laos, Vietnam, China, Taiwan, Ryukyu Is., Japan, Malay Archipelago.

Material examined. THAILAND : Chiangmai Prov., Fang, 500 m, 1 ex., 12. iv. 1958, T. C. Maa, 2 exs., 13. vi. 1965, P. D. Ashlock ; Chiangmai, 1 ex., 1966, J. Sedlacek ; Chiangmai Prov., Chiangdao, 5 exs., 5-11. iv. 1958, T. C. Maa ; S. Banna, Nakhon, 108 m, 3 exs., 5-10. v. 1958, T. C. Maa ; Banna, Chawang, nr. Nabon, 4 exs., 4-5. ix. 1958, J. L. Gressitt ; Sattahib, 1 m, 1 ex., 24. xi. 1957, J. L. Gressitt ; Narathiwat Prov., 15 km W. of Waeng, 100 m, 1 ex., 7-11. ix. 1965, L. W. Quate ; Lum Poon Prov., 14 km W. of Lie, 1 ex., 4-6. ix. 1965, L. W. Quate ; Ratburi, 1 ex., 15. viii. 1966, T. C. Maa ; Trang Prov., Khaophapha, Khaochong, 200-400 m, 1 ex., 13. i. 1964, G. A. Samuelson ; Muak Lek, 3 exs., 6. iii. 1963, Native collr ; Packchong, 2 exs., 7. iii. 1963, 1 ex., 11. iii. 1964, Native collr ; Saraburi, 2 exs., 4. iii. 1963, Native collr ; Patumthani, 2 exs., 10. vii. 1964, Native collr ; Khao Yai, 1 ex., 12. ii. 1964, Native collr ; Bangkok, 1 ex., 7. ix. 1963, Native collr (BISHOP) ; Chiangmai Prov., Fang, 1 ex., 13. vi. 1965,

K. Morimoto (KU) ; Rayong, 1 ex., 17. vii. 1962 ; Uthaitani, 1 ex., 13. iv. 1963 ; Lae, 2 exs., 6. ix. 1962 (BANGKHEN). CAMBODIA : Damrey Phong, 1 ex., 14-16. iv. 1968, N. R. Spencer; Kompong Chhnang, 7 m, 25. iv. 1961, N. R. Spencer (BISHOP). LAOS : Umgeb. Paklay, 21 exs., 1963 ; Umgeb. Pakse, 9 exs., 1963-64 ; Umgeb. Vientiane, 5 exs., iii-vi. 1963 (MUNCHEN); Khammouane Prov., Phon Tiou, 46 exs., 1-15. iv. 1965, J. L. Gressitt, 11 exs., 10-14. vi. 1965, N. Wilson, 1 ex., 28. iv. 1965, 5 exs., 30. iv. 1965, 1 ex., 13. vi. 1965, 2 exs., 14. vi. 1965, 9 exs., 6. vii. 1965, 4 exs., 4. viii. 1965, 1 ex., 14. viii. 1965, 23 exs., 11. ix. 1965, 1 ex., 28. ix. 1965, Native collr ; Borikhane Prov., Paksane, 8 exs., 7. viii. 1965, 2 exs., 9. ix. 1965, 13 exs., 1. xi. 1965, 2 exs., 10. xi. 1965, 1 ex., 29. xi. 1965, 1 ex., 14. ii. 1965, Native collr ; Borikhane Prov., Pakkading, 4 exs., 17. v. 1965, 1 ex., 14. vii. 1965, 1 ex., 9. ix. 1965, 2 exs., 15. ix. 1965, Native collr ; Namkading, nr. Pakkading, 100 m, 2 exs., 21. iv. 1965, J. L. Gressitt ; Pon-horn, N. of Pakkading, 1 ex., 20. iv. 1965, J. L. Gressitt ; Vientiane Prov., Vientiane, 21 exs., 21. iv. 1965, J. A. Rondon, 3 exs., 22. vii. 1965, 1 ex., 28. vii. 1965, 4 exs., 31. vii. 1965, 6 exs., 2-3. viii. 1965, 2 exs., 21-22. iii. 1966, Native collr ; Vientiane Prov., Tha Ngone, 1 ex., 27. ii.-6. iii. 1966, J. L. Gressitt, 1 ex., 19. viii. 1965, 1 ex., 30. ix. 1965, 1 ex., 16. xi. 1965, 4 exs., 25. xi. 1965, Native collr ; Vientiane Prov., Gi Sion Vill., de Tha Ngone, 10 exs., 24-31. x. 1965, Native collr ; Vientiane Prov., Ban Van Eue, 4 exs., 13. iv. 1965, J. L. Gressitt, 10 exs., 1-15. v. 1965, 2 exs., 31. vii. 1965, 1 ex., 30. xi. 1965, 1 ex., 30. i. 1966, 1 ex., 15. xii. 1966, 2 exs., 30. vii. 1967, Native collr ; Vientiane Prov., Dong Dok, 11 exs., 23. vii. 1965, 8 exs., 5. viii. 1965, 1 ex., 7. ix. 1965, 7 exs., 30. ix. 1965, 22 exs., 3. xi. 1965, 1 ex., 15. ii. 1966, Native collr ; Sayaboury Prov., Sayaboury, 1 ex., 30. v. 1965, 1 ex., 14. vii. 1965, 1 ex., 9. viii. 1965, 1 ex., 14. xii. 1965, 1 ex., 5. v. 1966, 1 ex., 25. viii. 1966, Native collr; Attopeu Prov., Houei Kong, 2 exs., 16. v. 1965, 19 exs., 31. v. 1965, 1 ex., 20. vii. 1965, 2 exs., 7. x. 1965, Native collr ; Sedon Prov., Pakse, 4 exs., 21-23. v. 1965, P. D. Ashlock, 3 exs., 2. viii. 1965, 16 exs., 31. v. 1967, Native collr ; Sedon Prov., Paksong, 1 ex., 20. ix. 1965, Native collr ; Wapikhamthong Prov., Wapi, 24 exs., 15. ix. 1967, Native collr ; Wapikhamthong Prov., Khong Sedone, 1 ex., 17. vii. 1965, 2 exs., 27. ix. 1965, Native collr ; Xieng Khouang Prov., Muong Soui, 1 ex., 1. ix. 1965, Native collr, Houa Khong Prov., Houei Sai, 2 exs., 3. ii. 1965, Native collr ; Tonpheng, 12 exs., 30. x. 1965, Native collr ; Nongtevda, 2 exs., 6. viii. 1965, 3 exs., 13. viii. 1965, Native collr ; Ile de Khong, 1 ex., 6. ii. 1965, 5 exs., 17. iv. 1965, Native collr (BISHOP), VIETNAM : Ban Den, Tay Ninh, 15 m, 2 exs., 7. vii. 1960, R. E. Leech ; Ninh Hoa, N. of Nha Trang, 2 exs., 28. xi. 1960, C. M. Yoshimoto ; 15-35 km NW of Phan Rang, 2 exs., 8-16. xi. 1960, C. M. Yoshimoto ; Quang Tri, 2 km N., 2 exs., 22. iv. 1970, A. R. Gillogly ; Danar, 200 m, 1 ex., 13-28. ii. 1961, N. R. Spencer ; Nha Ho, 14 km N., Phan Rang, 1 ex., xi. 1960, C. M. Yoshimoto ; 25 km SE of Pleiku, 400 m, 1 ex., 12. v. 1960, L. W. Quate (BISHOP).

***Aulacophora luteicornis* (Fabricius) Fig. 14c**

Galleruca luteicornis Fabr., 1801, Syst. Eleu., 1 : 482 (Sumatra).

Aulacophora simplicipennis Clark, 1865, Ann. Mag. Nat. Hist., ser. 3, 15 : 145 (Pulo-Penang).

—Jacoby, 1884, Notes Leyden Mus., 6 : 40 (Sumatra).-Baly, 1886, J. Linn. Soc., Zool., 20 : 21 (= *luteicornis*).

Aulacophora luteicornis : Jacoby, 1884, Notes Leyden Mus., 6 : 40 (Sumatra).-Baly, 1886, J. Linn. Soc., Zool., 20 : 3, 5, 21 (Malay Peninsula, Borneo, Sumatra).-Allard, 1888 (1889), Ann. Soc. Ent. France, ser. 6, 8 : 310, 321 (Malacca, Borneo).

Aulacophora dilatata Jacoby, 1886, Ann. Mus. Civ. Genova, 24 : 49 (Sarawak).-Baly, 1887, Ent. Monthly Mag., 23 : 268 (as var. of *luteicornis*).—Allard, 1888 (1889), Ann. Soc. Ent. France, ser. 6, 8 : 307, 319 (Borneo).-Baly, 1889, Trans. Ent. Soc. London, 1889 : 299 (as var. of *luteicornis*).

Aulacophora marginicollis Allard, 1888 (1889), Ann. Soc. Ent. France, ser. 6, 8 : 309, 320 (Singapore).-Baly, 1889, Trans. Ent. Soc. London, 1889 : 301 (as var. of *luteicornis*).

Pachypalpa luteicornis : Weise, 1892, Dtche Ent. Z., 1892 : 392 (genus).

Pachypalpa luteicornis ab. *marginicollis* : Laboissière, 1934, Bull. Mus. Hist. Nat. Belg., 10(37) : 2 (Siam N. : Xieng-Sen).

Distribution : Thailand, Malaya, Borneo, Sumatra.

No additional material was examined.

***Aulacophora mouhoti* Baly**

Aulacophora mouhoti Baly, 1886, J. Linn. Soc., Zool., 20 : 5, 25 (Cochinchina, Malacca ; BM) ; 1889, Trans. Ent. Soc. London, 1889 : 300 (mentioned).

Distribution : Vietnam, Malaya.

No additional material was examined beside the type series.

***Aulacophora nigripennis* Motschulsky Fig. 15c**

Galeruca atripennis Hope, 1841, Proc. 2001. Soc. London, 1841 : 64 (nec Fabricius) (Canton).

Aulacophora nigripennis Motsch., 1857, Etud. Ent., 6 : 88 (Japan).-Baly, 1866, J. Linn. Soc., Zool., 20 : 2, 4, 5 (Manchuria, Japan, China).-Allard, 1888 (1889), Ann. Soc. Ent. France, ser. 6, 8 : 309 (key).-Ogloblin, 1936, Fauna USSR, 26, 1 : 156, figs. (Amur).-Chen & Kung, 1959, Acta Ent. Sinica, 9(4) : 375, 377, figs. (China, Vietnam).-Chûjô, 1962, Phil. J. Sci., 91(1-2) : 79, 91 (Formosa).-Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B : 484, 489 (China, Hainan).-Kimoto, 1964, J. Fac. Agr. Kyushu Univ., 13(2) : 306 (Japan, Ryukyu Is.).

Distribution : E. Siberia, Korea, Japan, Ryukyu Is., China, Taiwan, Hainan, Vietnam.

Material examined. "Indo-China", 5 exs. (BASEL).

***Aulacophora opacipennis* Chûjô**

Aulacophora opacipennis Chûjô, 1962, Phil. J. Sci., 91(1-2) : 78, 98 (Formosa ; TARI) ; 1964, Nature and Life in SE Asia, Kyoto, 3 : 283 (Thailand).

Distribution : Thailand, Laos, Taiwan.

This species seems to be a closely related one to *Aulacophora nigripalpis* Chen & Kung, 1959, described from Yunnan, China.

Material examined. THAILAND : Trang Prov., Khaophappa, Khaochang, 200-400 m, 4 exs., 10-13. i. 1964, G. A. Samuelson ; Chiangmai Prov., Chiangmai, 1,100-1,500 m, 1 ex., 1966, J. Sedlacek ; Khao Yai, 1 ex., 10. iv. 1963, 1 ex., 12. ii. 1964, Native collr (BISHOP). LAOS : Vientiane Prov., Vientiane, 1 ex., 21. iv. 1965, J. A. Rondon ; Vientiane Prov., Ban Van Eue, 5 exs., 15-31. iv. 1965, 3 exs., 15-31. v. 1965, 2 exs., 15-31. vi. 1965, 3 exs., 15. vii. 1965, 1 ex., 31. vii. 1965, 1 ex., x. 1965, 34 exs., xi. 1965, 2 exs., 15. xii. 1965, 9 exs., 31. xii. 1965, 3 exs., 6. i. 1966, 1 ex., 15. i. 1966, 4 exs., 15. ii. 1966, 3 exs., 2. iii. 1966, 11 exs., 16. iii. 1966, 4 exs., 29. iv. 1966, 2 exs., 15. v. 1966, 1 ex., 31. v. 1966, 28 exs., 15. vi. 1966, 1 ex., 30. vii. 1966, 21 exs., 15. xii. 1966, 1 ex., 30. xii. 1966, 22 exs., 1-15. ix. 1967, 3 exs., 31. xii. 1968, Native collr ; Vientiane Prov., Phou Kou Khouei, 1 ex., 16. vi. 1966, 1 ex., 15. vii. 1966, Native collr ; Vientiane Prov., Gi Sion Vill., de Tha Ngone, 1 ex., 19. viii. 1965, 15 exs., 10-24. x. 1965, Native collr ; Sayaboury Prov., Sayaboury, 1 ex., 14. vii. 1965, 7 exs., 6. xii. 1965, 2 exs., 14. xii. 1965, 1 ex., 31. xii. 1965, 2 exs., 15. i. 1967, Native collr ; Sayaboury Prov., Sayaboury, 3 exs., 14. xii. 1965, Native collr ; Khammouane Prov., Phon Tiou, 2 exs., 1-15. iv. 1965, J. L. Gressitt, 1 ex., 6. vii. 1965, Native collr (BISHOP).

***Aulacophora pubescens* (Allard)**

Rhaphidopalpa pubescens Allard, 1888 (1889), Ann. Soc. Ent. France, ser. 6, 8 : 306, 319 (Annam).

—Baly, 1889, Trans. Ent. Soc. London, 1889 : 298 (mentioned).

Distribution : Vietnam.

Judging from the original description, this species probably belongs to another genus, in having the dorsal surfaces covered with hairs. This species is not included in the key.

***Aulacophora semifusca* Jacoby Fig. 15b**

Aulacophora semifusca Jac., 1892, Ann. Mus. Civ. Genova, 32 : 942 (Burma ; GENOVA).—Maulik, 1936, Fauna India, Galeruc. : 192 (Burma).

Aulacophora almora Maulik, 1936, Fauna India, Galeruc. : 170, fig. 51 (Himalayas, Assam ; BM).—Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B : 483, 484 (China, Hainan).—Kimoto & Takizawa, 1972, Kontyû, Tokyo, 40(4) : 216 (Nepal).—Anand & Cox, 1986, Ent. Abh. Staatl. Mus. Dresden, 50(4) : 83, 85 (India). New **synonym**.

Aulacophora similis : Chen & Kung, 1959 (nec Olivier), Acta Ent. Sinica, 9(4) : 376, 382 (China).

—Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B : 484 (= *almora*).

Aulacophora simplex Chûjô, 1962, Phil. J. Sci., 91(1-2) : 77 (Formosa).—Anand & Cox, 1986, Ent. Abh. Staatl. Mus. Dresden, 50(4) : 83, 86 (= *almora*).

Distribution : India, Burma, Nepal, Thailand, Laos, Vietnam, S. China, Hainan, Taiwan,

This species is very variable on coloration of the dorsal surfaces and the legs, and *almora* is nothing but an infraspecific variation of *semifusca*. In female specimen, it is difficult to clearly separate this species from *yunnanensis* Chen & Kung. The material here identified as female of *semifusca* Jacoby might include female of *yunnanensis*. In the most pale colored specimen of *semifuscus*, the scutellum is entirely yellowish brown.

Material examined. Male specimens. THAILAND : Chiangmai Prov., Chiangdao, 450 m, 9 exs., 5-11. iv. 1958, T. C. Maa ; Chiangmai Prov., Fang (Agr. Exp. Station), 600 m, 2 exs., 14. vi. 1965, P. D. Ashlock (BISHOP) ; Chiangmai Prov., Fang, 1 ex., 19. vi. 1965, K. Morimoto (KU). LAOS : Vientiane Prov., Ban Van Eue, 2 exs., 11. iv. 1965, 6 exs., 13. iv. 1965, 1 ex., 14. iv. 1965, 1 ex., 15. iv. 1965, J. L. Gressitt, 14 exs., 1-15. v. 1965, J. A. Rondon, 1 ex., 15-31. v. 1965, 1 ex., 31. vii. 1965, 2 exs., 15. viii. 1965, 1 ex., 31. ix. 1965, 4 exs., 30. xi. 1965, 1 ex., 15. vi. 1966, 1 ex., 31. v. 1966, 1 ex., 30. viii. 1967, Native collr ; Vientiane Prov., Gi Sion Vill., de Tha Ngone, 2 exs., 10-24. x. 1965, Native collr ; Vientiane Prov., Phou Kou Khouei, 1 ex., 15. vi. 1966, Native collr ; Khammouane Prov., Phou Tiou, 1 ex., 17. v. 1965, 1 ex., 28. ix. 1965, Native collr ; Sayaboury Prov., Sayaboury, 2 exs., 15-16. iv. 1965, J. L. Gressitt, 1 ex., 30. v. 1965, 1 ex., 5. v. 1966, 1 ex., 25. viii. 1966, Native collr ; Borikhane Prov., Pakkading, 1 ex., 13. vii. 1965, J. L. Gressitt ; Borikhane Prov., Uekinak, 100 m, nr. Pakkading, J. L. Gressitt (BISHOP) ; Umgeb. Vientiane, 2 exs., iii-vi. 1963 (MUNCHEN). VIETNAM : Ban Me Thuot, 500 m, 1 ex., 16-18. v. 1960, L. M. Quate ; Dilinh (Djiring), 900 m, 1 ex., 22-28. iv. 1960, L. W. Quate (BISHOP).

Female specimens. THAILAND : Chiangmai Prov., Chieng Dao, 450 m, 1 ex., 5-11. iv. 1958, T. C. Maa ; Chiangmai Prov., Dai Suthep, 1 ex., 28-31. viii. 1958, T. C. Maa ; Chiangmai Prov., Fang, 500 m, 1 ex., 13. vi. 1965, P. D. Ashlock (BISHOP) ; Vientiane Prov., Fang, 6 exs., 13. vi. 1965, K. Morimoto (KU). LAOS : Vientiane Prov., Ban Van Eue, 1 ex., 11. iv. 11 exs., 13. iv. 1965, 1 ex., 14. iv. 1965, J. L. Gressitt, 37 exs., 1965, 8 exs., 15-31. v. 1965, J. A. Rondon, 2 exs., 15-31. iv. 1965, 11 exs., 15-31. v. 1965, 1 ex., 15-31. vi. 1965, 2 exs., 31. vii. 1965, 1 ex., 15. viii. 1965, 1 ex., 30. ix. 1965, 7 exs., 30. xi. 1965, 1 ex., 15. xii. 1965, 6 exs., 31. v. 1966, 1 ex., 15. vi. 1966, 2 exs., 15. viii. 1966, 4 exs., 30. xi. 1966, 1 ex.,

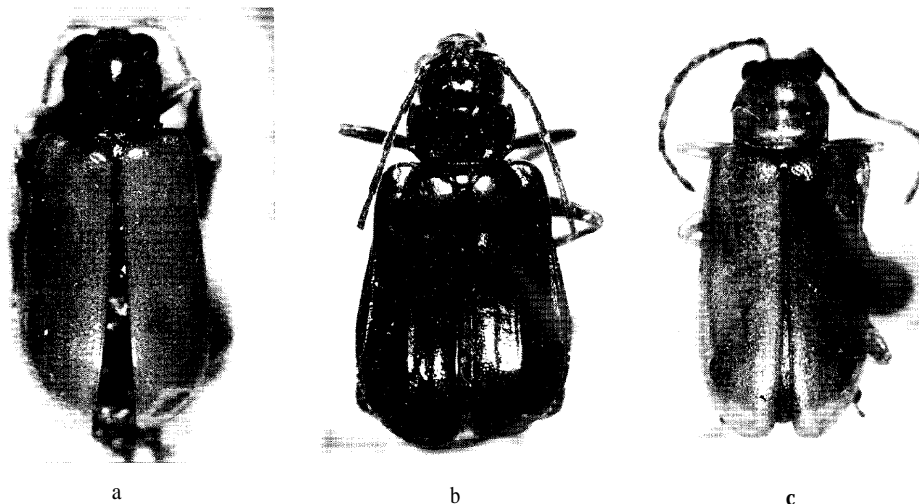


Fig. 16. a, *Kanarella unicolor* Jacoby ; b, *Japonitata tricarinata* (Laboissière) ; c, *Cerophysella laosensis* n. sp.

15. xii. 1966, 1 ex., 30. iii. 1967, 4 exs., 15-30. vi. 1967, 2 exs., 30. viii. 1967, 3 exs., 1-15. ix. 1967, 1 ex., 30. ix. 1967, 1 ex., 15. x. 1967, Native collr ; Vientiane Prov., Phou Kou Khouei, 1 ex., 31. vii. 1965, 2 exs., 16. vi. 1966, Native collr ; Vientiane Prov., Gision Vill., de Tha Ngone, 10 exs., 10-24. x. 1965, Native collr ; Sayaboury Prov., Sayaboury, 2 exs., 15. iv. 1965, J. L. Gressitt, 2 exs., 17. vii. 1965, 1 ex., 6. xii. 1965, 1 ex., 14. xii. 1965, 1 ex., 5. v. 1966, 4 exs., 25. viii. 1966, Native collr ; Borikhane Prov., Pakkading, 3 exs., 23. iv. 1965, 2 exs., 13. vii. 1965, J. L. Gressitt, 1 ex., 17. v. 1965, 1 ex., 29. iv. 1966, Native collr ; Khammouane Prov., Phon Tiou, 1 ex., 28. iv. 1965, 1 ex., 17. v. 1965, 3 exs., 10. vi. 1965, 3 exs., 6. vii. 1965, 1 ex., 11. ix. 1965, 2 exs., 28. ix. 1965, Native collr ; Attopeu Prov., Houei Kong, 1 ex., 16. v. 1965, 3 exs., 31. v. 1965, Native collr ; Wapikhamathong Prov., Khong Sedone, 1 ex., 16. v. 1965, 1 ex., 27. ix. 1965, Native collr ; Tonpheng, 1 ex., 14. ix. 1965, Native collr ; Dong Dok, 6 exs., 23. vii. 1965, Native collr (BISHOP). VIETNAM : Ban Me Thuot, 500 m, 2 exs., 16-18. v. 1960, L. W. Quate ; 76 km SW of Ban Me Thuot, 855 m, 1 ex., 20. v. 1960, R. E. Leech ; Blao (Balao), 500 m, 1 ex., 14-21. x. 1960, C. M. Yoshimoto (BISHOP).

***Aulacophora yunnanensis* Chen & Kung**

Aulacophora yunnanensis Chen & Kung, 1959, Acta Ent. Sinica, 9(4) : 383, 387, fig. (Yunnan).
-Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B : 483, 490 (China).

Distribution : Laos, China.

Material examined. LAOS : Vientiane Prov., Vientiane, 1 ex., 8. iv. 1965, J. L. Gressitt ; Vientiane Prov., Ban Van Eue, 2 exs., 11. iv. 1965, 5 exs., 13. iv. 1965, J. L. Gressitt, 4 exs., 15-31. iv. 1965, 1 ex., 15. viii. 1965, 1 ex., 15. iv. 1966, 1 ex., 15. vi. 1966, Native collr ; Vientiane Prov., Phou Kow Kuei, 1 ex., 16. iv. 1965, J. L. Gressitt ; Pakkading, Borikhane Prov., 4 exs., 23. iv. 1965, J. L. Gressitt ; Khammouane Prov., Phon Tiou, 1 ex., 28. iv. 1965, Native collr ; Sayaboury Prov., Sayaboury, 2 exs., 15-16. iv. 1965, J. L. Gressitt ; Dong Dok, 4 exs., Native collr (BISHOP) ; Umgeb. Vanky, 2 exs., 1963 ; Umgeb. Vientiane, 4 exs., iii-vi. 1963 ; Umgeb. Paklay, 3 exs., 1963 (MUNCHEN).

Genus **Kanarella** Jacoby

Kanarella Jac., 1896, Ann. Soc. Ent. Belg., 40 : **279** (type : *Kanarella unicolor* Jacoby ; India).

-Maulik, 1936, Fauna India, Galeruc. : 297.

Cneorabella Maulik, 1936, Fauna India, Galeruc. : 334 (type : *Cneorane pallida* Jacoby ; Ceylon).

Kanarella unicolor Jacoby Fig. 16a

Kanarella unicolor Jac., 1896, Ann. Soc. Ent. Belg., 40 : 280 (Kanara, Assam).-Maulik, 1936,

Fauna India, Galeruc. : 299, fig. (India).-Kimoto, 1970, Khumbu Himal, 3(3) : 421 (Nepal) ;

1979, Ent. Basiliensia, 4 : 474 (Nepal, Darjeeling, Maghalaya, Assam).

Distribution : India, Nepal, Laos, Vietnam.

Elongate ; pronotum nearly as long as wide, slightly widened anteriorly, and its surface smooth, shining, impunctate ; elytron subparallel-sided, confusedly impressed by distinct punctures ; entirely yellowish brown ; length 4.8-5.7 mm.

Material examined. LAOS : Uekinak, nr. Pakkading, 1 ex., 22. iv. 1965, J. L. Gressitt (BISHOP). VIETNAM : Dalat, 1,300 m, 1 ex., 2. v. 1960, S. Quate (BISHOP).

Genus **Japonitata** Strand

Japonia Weise, 1922, Tijdschr. Ent. : 70 (nec Gould, 1859) (type : *Phyllobrotica nigrita* Jacoby ; Japan).

Japonitata Strand, 1935, Folia Zool.-Hydrobiol., 7 : 294 (new name for *Japonia* Weise, nec Gould).

-Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B : 501.

KEY TO SPECIES OF *Japonitata*

- | | | |
|------|--|--------------------|
| 1 | Elytron with more than two costae | 2 |
| | Elytron with a lateral costa ; pronotum nearly 1 2/3 times as wide as long ; generally black, elytron violaceous blue, abdomen yellowish brown ; length 5.0 mm (Laboissière, 1929 ; China) | <i>unicostata</i> |
| 2(1) | Pronotum nearly three times as wide as long ; in male elytron with two long and two short costae and in female with two long costae ; generally black, abdomen yellowish brown ; length 4.0 mm | <i>coomani</i> |
| | Pronotum nearly twice as wide as long ; elytron with three costae of which median one interrupted at middle ; generally black, elytron bluish black, abdomen yellowish brown ; length 5.0-6.5 mm | <i>tricarinata</i> |

Japonitata coomani (Laboissière)

Japonia coomani Lab., 1932, Ann. Ass. Nat. Levallois-Perret, 20 : 138 (Tonkin ; HAMBURG).

Distribution : Vietnam.

No additional material was examined beside the type series.

Japonitata tricarinata (Laboissière) Fig. 16b

Japonia tricarinata Lab., 1929, Ann. Soc. Ent. France, 98 : 273 (Tonkin ; HAMBURG).

Japonitata tricarinata : Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B: 501 (Tonkin : Hoa-Binh).

Distribution : Vietnam.

No additional material was examined.

Genus *Euliroetis* Ogloblin

Euliroetis Ogl., 1936, Fauna USSR, 26, 1 : 197, 371, 403 (type : *Aenidea ornata* Baly ; Japan, China).-Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B: 502.

Euliroetis lameyi (Laboissière)

Liroetis lameyi Lab., 1929, Ann. Soc. Ent. France, 98 : 278 (Tonkin ; HAMBURG).

Euliroetis lameyi var. *obscuripes* Ogloblin, 1936, Fauna USSR, 26, 1 : 200, 405 (Amur).

Euliroetis lameyi : Ogloblin, 1936, Fauna USSR, 26, 1 : 199, 404 (Tonkin, Chine, Ussuri, Amur).

-Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B: 503 (Tonkin).

Distribution : Vietnam, China, E. Siberia.

Oblong oval, pronotum with a pair of foveae ; elytron finely punctate, epipeluron extremely narrow. Yellowish brown, antenna, dorsal surfaces of femora, tibiae and tarsi black ; elytron yellowish brown with basal, sutural and apical markings blackish ; in some specimen legs almost entirely blackish ; in male fourth and fifth abdominal segments slightly depressed at middle ; length 6.3 mm.

No additional material was examined.

Genus *Cerophysella* Laboissière

Cerophysella Lab., 1930, Ann. Soc. Ent. France, 99 : 352 (type : *Cerophysella tonkinensis* Laboissière ; Vietnam).-Ogloblin, 1936, Fauna USSR, 26, 1 : 169.—Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B: 501.

Chonganlu Laboissière, 1930, Ann. Soc. Ent. France, 99 : 355 (type : *Chonganlu duporti* Laboissière ; Tonkin). New **synonym**.

KEY TO SPECIES OF *Cerophysella*

- 1 Posterior margin of pronotum without a pair of tubercles 2
 Posterior margin of pronotum with a pair of tubercles ; in male elytron with a round depression behind scutellum ; generally blackish, prothorax yellowish brown, legs reddish brown with middle and posterior legs partly infusate ; length 4.5-5.0 mm *basalis*
- 2(1) Elytral punctures finer, pronotum smooth 3
 Elytral punctures stronger, pronotum granulate ; in male specimens without any distinct secondary sexual character on dorsal surfaces ; generally black, prothorax and legs yellowish to reddish brown, antenna pitchy black, in pale colored specimen elytron entirely brownish ; length 5.0-6.0 mm *laosensis*
- 3(2) Antenna robust, fifth and sixth segments nearly 1 1/2 times as long as wide ; in male pronotum with a pair of distinct tubercles slightly before transverse depression and elytron with a round depression behind scutellum ; generally black ; prothorax yellowish brown, coloration of elytron variable, 1) entirely black, 2) black with a transverse

median band yellowish brown, 3) yellowish brown with a basi-sutural round marking blackish, 4) entirely yellowish brown ; in pale colored specimen abdomen and legs almost entirely brownish ; length 5.0-6.0 mm *viridipennis*
 Antenna slenderer, fifth and sixth segments more than twice as long as wide ; in male third to eleventh antennal segments thickly covered by long hairs ; generally reddish brown, elytral coloration variable, 1) entirely blackish with basal margin narrowly reddish, 2) black with a transverse median band reddish, 3) entirely reddish brown ; in dark colored specimen ventral surfaces, antenna and legs almost entirely pitchy black ; length 5.0-5.5 mm *plagiata*

***Cerophysella basalis* (Baly)**

Aenidea ? *basalis* Baly, 1874, Trans. Ent. Soc. London, 1874 : 181 (Japan, China ; BM).

Phyllectrus ? *ceylanicus* Allard, 1889, C. R. Soc. Ent. Belg., 33 : 82 (Ceylon, Saigon ; PARIS).

—Maulik, 1936, Fauna India, Galeruc. : 445 (Ceylon, Saigon). New synonym.

Cerophysella ceylanica : Laboissiere, 1930, Ann. Soc. Ent. France, 99 : 355 (mentioned) ; 1935, Ann. Ass. Nat. Levallois-Per-ret, 21 : 141 (mentioned).

Cerophysella basalis : Laboissiere, 1930, Ann. Soc. Ent. France, 99 : 352 (genus).-Ogloblin, 1936, Fauna USSR, 26, 1 : 170, 399 (Japan, Chine).-Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B : 501 (China).

Cerophysella tonkinensis Laboissiere, 1930, Ann. Soc. Ent. France, 99 : 353 (Tonkin ; HAMBURG). New synonym.

Distribution : Thailand, Vietnam, Hainan, E. China, Japan.

Material examined. THAILAND: Nakhon Nayok Prov., Khoa Yai Nat. Park, 17 exs., 5-6. vi. 1965, P. D. Ashlock (BISHOP), 32 exs., 6. vi. 1965, S. Asahina, K. Morimoto & Y. Miyatake (KU). VIETNAM : 10 km E. of Ban Me Thuot, 570 m, 9 exs., 10. v. 1960, R. E. Leech (BISHOP).

In the Chinese specimens, a pair of tubercles on the posterior margin of pronotum are distinct. However, in the Thailand and the Indochinese specimens these tubercles are more weaker.

***Cerophysella laosensis* n. sp. Fig. 16c**

Generally black, prothorax yellowish to reddish brown, antenna pitchy black with one or two basal segments reddish brown, legs generally yellowish brown ; in pale colored specimen elytron entirely yellowish to reddish brown.

Head with vertex finely granulate, impunctate, interocular space distinctly wider than transverse diameter of single oculus, and interocular transverse impression obsolete, frontal tubercle transverse, subtriangular, contiguous, distinctly raised, surface generally smooth, shining, not distinctly delimited posteriorly. Antenna robust, in preapical segments nearly twice as long as wide ; first robust, somewhat club-shaped, second shortest, nearly 2/5 as long as first, third nearly twice as long as second, third to seventh subequal to each other in length and shape, eighth nearly 1 1/5 times as long as seventh, ninth subequal to eighth in length and shape, eleventh 1 1/4 times as long as tenth and its apex pointed. Pronotum transverse, 1 1/4 times as broad as long, anterior margin distinctly rounded anteriorly, lateral margin distinctly rounded, widest at 1/3 from anterior margin, and slightly narrowed anteriorly and more strongly so posteriorly, basal margin distinctly rounded posteriorly, dorsal surface convex, finely granulate, sparsely impressed by minute punctures, with a pair of lateral transverse furrows which are united at middle. Scutellum subtriangular, surface finely granulate, impunctate. Elytron with lateral margins subparallel-sided and apex rounded, surface distinctly and

closely punctate, and interstices of punctures finely granulate.

Length : 5.0-6.0 mm.

Holotype (BISHOP) : LASO : Vientiane Prov., Gi Sion Vill., de Tha Ngone, 2. i. 1966, Native collr. Paratopotypes : 76 exs., same data as the holotype (BISHOP, KIMOTO). Paratypes : LAOS : Vientiane Prov., Gi Sion Vill., de Tha Ngone, 55 exs., 26. xii. 1965, Native collr ; Vientiane Prov., Ban Van Eue, 1 ex., 31. vii. 1965, 2 exs., 31. i. 1967, 1 ex., 30. ix. 1967, 1 ex., 31. xii. 1968, Native collr ; Borikhane Prov., Pakkading, 16 exs., 13. vii. 1965, Native collr ; Wapikhamthong Prov., Wapi, 1 ex., 31. v. 1967, 1 ex., 15. vii. 1967, Native collr (BISHOP).

This new species resembles *Cerophysella viridipennis* (Allard), but differs in having pronotum finely granulate and elytron with the punctures more strongly and closely impressed.

Cerophysella plagiata Laboissière, resurrected from synonymy

Cerophysella plagiata Laboissière, 1930, Ann. Soc. Ent. France, 99 : 354 (Tonkin ; HAMBURG).

-Gressitt & Kimoto, 1963, Pac. Ins. Mon. 1B : 501 (= *basalis*).

Distribution : Vietnam.

In Gressitt & Kimoto (1963), *Cerophysa plagiata* Laboissière was treated as a synonym of *basalis* Baly. According to the study on the type of *Cerophysella plagiata* Laboissière, this specie is characteristic in having the posterior margin of pronotum without and distinct tubercles.

Material examined. THAILAND : Chiangmai Prov., Mae Sa, 1 ex., 16. vi. 1965, P. D. Ashlock ; Chiang Dao, 2 exs., 5-11. iv. 1958, Native collr ; Khao Yai, 1 ex., 11. iv. 1963, Native collr (BISHOP) ; Khon Kaen, 6 exs., x-xii. 1972, M. Sato (EHIME). LAOS : Borikhane Prov., Pakkading, 200 m, 1 ex., 23. iv. 1965, J. L. Gressitt (BISHOP) ; Umgeb. Vientiane, 1 ex., iii-vi. 1963 ; Umgeb. Pakse, 1 ex., 1963 (MUNCHEN).

Cerophysella viridipennis (Allard)

Phyllectrus viridipennis Allard, 1889, C. R. Soc. Ent. Belg., 33 : 83 (Cochinchina ; PARIS).

Cerophysella viridipennis : Laboissière, 1930, Ann. Soc. Ent. France, 99 : 355 (mentioned).

Chongania duporti Laboissière, 1930, Ann. Soc. Ent. France, 99 : 356, fig. (Tonkin ; HAMBURG).

New **synonym**.

Distribution : Ceylon, Thailand, Cambodia, Laos, Vietnam.

Material examined. THAILAND : Chiangmai Prov., Fang (Agr. Exp. Station), 600 m, 2 exs., 14. vi. 1965, P. D. Ashlock ; Chiangmai Prov., Chiang Dao, 1 ex., 5-11. iv. 1958, Native collr ; Nakhon Nayok Prov., Khao Yai Nat. Park, 1 ex., 6. vi. 1965, P. D. Ashlock ; Kao Yai, 1 ex., 11. iv. 1963, Native collr (BISHOP). CAMBODIA : Kiri Rom, 700 m, 42 exs., 31. iii-7. iv. 1961, N. R. Spencer (BISHOP). LAOS : Vientiane Prov., Vientiane, 1 ex., 30. iv. 1965, Native collr ; Vientiane Prov., Ban Van Eue, 2 exs., 11. iv. 1965, 10 exs., 12. iv. 1965, 8 exs., 13. iv. 1965, 2 exs., 14. iv. 1965, 3 exs., 15. iv. 1965, 1 ex., 16. iv. 1965, J. L. Gressitt, 6 exs., 1-15. v. 1965, J. A. Rondon, 6 exs., 15-31. iv. 1965, 1 ex., 15-31. v. 1965, Native collr ; Vientiane Prov., Phou-kow-kuei, 2 exs., 15. iv. 1965, 1 ex., 16. iv. 1965, 5 exs., 17. iv. 1965, J. L. Gressitt ; Sayaboury Prov., Sayaboury, 5 exs., 15-16. iv. 1965, J. L. Gressitt ; Muong Sing, NW of Luang Prabang, 650 m, 2 exs., 6-10. vi. 1960, L. W. Quate ; Phon Tiou, 1 ex., 1-15. iv. 1965, J. L. Gressitt (BISHOP) ; Umgeb. Vientiane, 14 exs., iii-vi. 1963 ; Umgeb. Vanky, 1 ex., 1963 ; Umgeb. Paklay, 2 exs., 1963 (MUNCHEN). VIETNAM : Dalat, 1,500 m, 4 exs., 29. iv-4. v. 1960, S. Quate & L. Quate ; NW of Dalat, 1,300 m, 5 exs., 4-5. v. 1960, S. Quate & L. Quate ; 31 km S. of Dilinh (Djiring), 7 exs., 29. iv. 1960, R. E. Leech ; 39 km S. of Djiring, 1 ex., 29. iv. 1960, L. W. Quate ; 22 km S. of Nha Trang, 1 ex., 20-26. xi. 1960, C. M. Yoshimoto (BISHOP).

Genus *Paridea* Baly

Paridea Baly, 1886, J. Linn. Soc. London, 20 : 26 (type : *Paridea thoracica* Baly = *Galleruca tetraspilota* Hope ; India).—Maulik, 1936, Fauna India, Galeruc. : 498.—Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B:506.—Kimoto, 1965, J. Fac. Agr. Kyushu Univ., 13(3): 375.

KEY TO SPECIES OF *Paridea*

- 1 Prosternum narrow but distinct, inserted between coxal cavities ; pygidium modified in female 2
- Prosternum not inserted between coxal cavities ; pygidium simple in both sexes (subgenus *Paridea*) 4
- 2(1) Pygidium of female entire, somewhat projecting beyond elytral apex and horn-like shaped (subgenus *Paralaca*) 3
- Pygidium of female deeply emarginate and projecting as a bilobed process beyond elytron (subgenus *Semacia*) ; yellowish brown with meso- and metathorax blackish ; length 5.8 mm *pectoralis*
- 3(2) Pronotum pitchy brown with basal portion yellowish brown, elytron entirely yellowish to reddish brown ; generally yellowish brown ; length 4.5-5.5 mm *coomani*
- Pronotum pitchy black ; elytron pitchy black with a large median marking yellowish brown ; head and ventral surfaces pitchy black with abdomen yellowish brown ; antenna and legs generally yellowish brown ; length 5.7-6.0 mm *excavata*
- 4(1) Dorsal surfaces entirely brownish 5
- Dorsal surfaces partly blackish 6
- 5(4) Elytron with a distinct lateral costa starting from humerus ; yellowish brown with metathorax black ; length 4.3-4.5 mm *subviridis*
- Elytron without any costa laterally ; yellowish brown with metathorax black ; in male elytron with a pair of foveae and several short irregular ridges basally, and tenth antennal segment depressed and infusate ; length 5.4-6.5 mm *allardi*
- 6(5) Pronotum black 7
- Pronotum yellowish brown 10
- 7(6) Elytron with blackish markings 8
- Elytron yellowish brown with margins blackish ; generally blackish, vertex, apex of femora and base of tibiae reddish, and abdomen with lateral margin yellowish ; length 4.8 mm *circumdata*
- 8(7) Elytral margins partly brownish 9
- Elytral margins, together with basal and postmedian transverse band, entirely blackish ; generally blackish, abdomen with lateral margin yellowish ; length 3.9-5.3 mm *oculata*
- 9(8) Elytron yellowish brown with basal band and latero-apical marking blackish ; in female elytron with a distinct tubercle subapically ; generally black, vertex reddish brown, abdomen brownish ; legs blackish with apical 1/3 of femora and base of tibiae brownish ; antenna blackish with basal segments brownish ; length 4.5 mm *basalis*
- Elytron yellowish brown with basal and apical band black ; in male elytron without any distinct tubercle ; generally blackish, abdomen with lateral margin brownish, antenna and legs blackish ; length 5 mm *alternata*
- 10(6) Legs entirely yellowish brown ; head, pronotum and scutellum yellowish brown ;

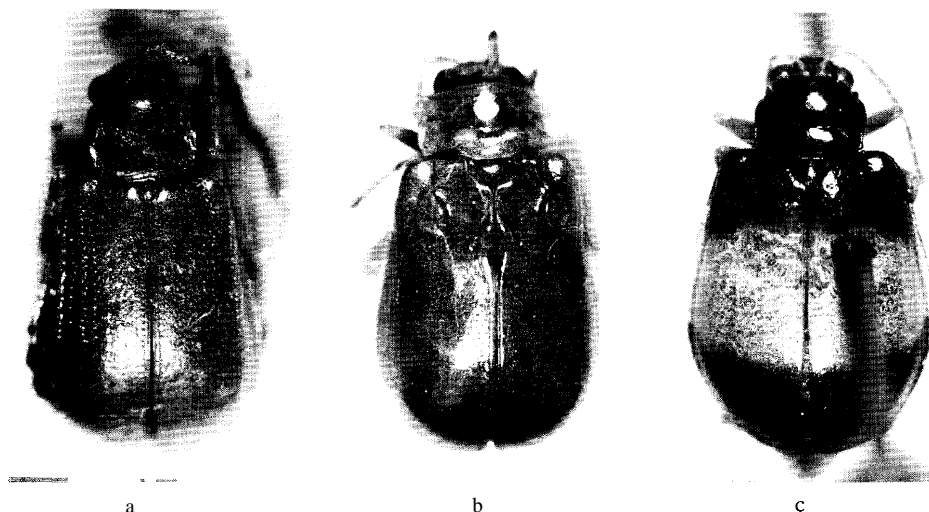


Fig. 17. a, *Paridea (Paridea) subviridis* Laboissiere ; b, *P. (Paridea) allardi* n. sp. ; c, *P. (Paraulaca) excavata* n. sp.

elytron yellowish brown with basal and apical markings black, in some specimen these two markings united; ventral surfaces yellowish brown with metathorax blackish, in some specimen abdomen blackish in various degrees ; length 5.7-6.0 mm

..... *tetraspilo* ta

Legs yellowish brown with ventral surfaces of femora and tibiae black ; dorsal surfaces yellowish brown, elytron with basal and apical markings blackish ; ventral surfaces yellowish brown with meso- and metathorax and four basal segments of abdomen blackish ; length 5.8-6.5 mm

..... *luteofascia* ta

Subgenus *Paraulaca* Baly

Paraulaca Baly, 1888, J. Linn. Soc. London, 20 : 168 (type : *Rhaphidopalpa angulicollis* Motschulsky ; China).-Ogloblin, 1936, Fauna USSR, 26, 1 : 165, 397 (type put in the subgenus *Semacia* !).

Semacianella Laboissiere, 1930, Ann. Soc. Ent. France, 99 : 337 (type : *Semacianella coomani* Laboissiere ; Tonkin). New synonym.

Paridea (Paraulaca) coomani (Laboissière), new combination

Semacianella coomani Lab., 1930, Ann. Soc. Ent. France, 99 : 338 (Tonkin ; HAMBURG).

Distribution : Vietnam.

Material examined. "Indo-China", 1 ex. (BASEL).

Paridea (Paraulaca) excavata n. sp. Fig. 17c

Generally pitchy black, elytron with a large median marking yellowish brown.

Head with vertex smooth, shining, sparsely impressed by fine punctures, interocular space much

wider than transverse diameter of single oculus, and interocular transverse impression distinct, frontal tubercle transverse, subquadrate, contiguous, distinctly raised, surface smooth, impunctate. Antenna slender, nearly $3/4$ as long as body length ; first segment long, robust, second shortest, nearly half as long as first, third twice as long as second, third to ninth subequal to each other in length and shape, tenth slightly shorter than ninth, eleventh slightly longer than tenth and its apex pointed. Pronotum transverse, $1 \frac{2}{5}$ times as broad as long, anterior margin nearly straight lateral margin feebly rounded, widest almost at $1/3$ from anterior margin, slightly narrowed anteriorly and posteriorly, basal margin distinctly rounded posteriorly, dorsal surface smooth, shining, sparsely impressed by minute punctures, and with a distinct transverse depression. Scutellum subtriangular, sparsely impressed by fine punctures. Elytron with lateral margin rounded, surface distinctly but not closely punctate and their interstices smooth, shining.

Male: Elytron with a distinct subbasal excavation ; pygidium without horn-like projection apically. **Female :** Elytron without any distinct excavation subbasally ; pygidium with sharp horn-like shaped projection apically.

Length : 5.7-6.0 mm.

Holotype (BISHOP) : THAILAND : Chiangmai, 1,200 m, 11. iv. 1966, J. Sedlacek. Paratypes: THAILAND : Chiangmai Prov., Doi Suthep, 1,278 m, 1 ex., 29. iii.-4. v. 1958, T. C. Maa (BISHOP). LAOS : 100 m, Uekinak, nr. Pakkading, 1 ex., 22. iv. 1965, J. L. Gressitt ; 100 m, Namakading, nr. Pakkading, 1 ex., 21. iv. 1965, J. L. Gressitt (BISHOP, KIMOTO).

This new species resembles *Paridea coomani* (Laboissière), but differs in having the general coloration pitchy black, and elytron with a median marking yellowish brown, and in the male elytron with a distinct subbasal excavation.

Subgenus *Paridea* Baly

Paridea (Paridea) allardi n. sp. Fig.17b

Aulacophora chlorotica : Allard, 1888 (1889), Ann. Soc. Ent. France, ser. 6, 8 : 308, 319 (Annam).

Ceratia chlorotica : Weise, 1924, Col. Cat. Junk, 78 : 17 (Annam).

Generally yellowish brown, ventral surfaces with metathorax black.

Head with vertex smooth, shining, nearly impunctate, interocular space much wider than transverse diameter of single ocellus, and interocular transverse impression distinct, frontal tubercle transverse, subquadrate, contiguous, distinctly raised, surface smooth, impunctate. Antenna slender, nearly $3/4$ as long as body length ; first segment long, robust, second shortest, nearly $1/4$ as long as first, third $2 \frac{2}{3}$ times as long as second, fourth slightly shorter than third, fourth to ninth subequal to each other in length and shape, tenth slightly shorter than ninth, eleventh subequal to tenth in length but its apex pointed. Pronotum transverse, $1 \frac{3}{4}$ times as broad as long, anterior margin nearly straight, lateral margin feebly rounded, widest almost at middle, slightly narrowed anteriorly and posteriorly, basal margin slightly rounded posteriorly, dorsal surface smooth, shining, sparsely impressed by minute punctures, and with a distinct transverse depression. Scutellum subtriangular, convex, smooth, shining, impunctate. Elytron with lateral margin rounded, surface strongly and rather closely punctate and their interstices smooth, shining.

Male : Elytron with a pair of foveae and several short irregular ridges basally ; antenna with tenth segment depressed and infusate. **Female :** Elytron normal ; antenna entirely brownish and normal.

Length : 5.4-6.5 mm.

Holotype (BISHOP) : LAOS : Vientiane Prov., Ban Van Eue, 15. vi. 1966, Native collr. Para-

topotypes : 3 exs., same data as the holotype (BISHOP). Paratypes : THAILAND : Khon Kaen, 1 ex., 24. vii. 1980, S. Azuma (RU). LAOS : 3 exs., same data as the holotype, but 30. xi. 1965, Native collr, 1 ex., 15-31. v. 1965, Native collr, 2 exs., 1-15. ix. 1967, Native collr, 3 exs., 15. vi. 1966, Native collr, 1 ex., 15. viii. 1965, Native collr, 1 ex., 15-31. iv. 1965, Native collr, 2 exs., 1-15. v. 1965, J. A. Rondon, 1 ex., 15. iv. 1965, J. L. Gressitt, 1 ex., 16. iv. 1965, J. L. Gressitt ; Phou-kow-kuei, N. of Vientiane, 1 ex., 17. iv. 1965, J. L. Gressitt ; Vientiane Prov., Gi Sion Vill., de Tha Ngone, 2 exs., 10-14. x. 1965, Native collr ; Muong Sing, NW of Lang Prabon, 650 m, 2 exs., 6-10. vi. 1960, S. Quate & L. Quate ; Sayaboury Prov., Sayaboury, 1 ex., 15. iv. 1965, J. L. Gressitt, 1 ex., 16. iv. 1965, J. L. Gressitt, 1 ex., 14. xii. 1965, Native collr (BISHOP).

This new species somewhat resembles *Paridea subviridis* Laboissière, but differs in being the body length larger, and having elytron without any costa laterally and in the male with a pair of foveae and several short irregular ridges basally.

The material identified as "*Aulacophora chlorotica* Fabricius" by Allard is now preserved in Paris Museum. However, I could not trace any name referred by Allard.

Paridea (Paridea) alternata Laboissière

Paridea alternata Lab., 1930, Ann. Soc. Ent. France, 99 : 345 (Tonkin ; HAMBURG).

Distribution : Vietnam.

No additional material was examined beside the type series.

Paridea (Paridea) basalis Laboissière

Paridea basalis Lab., 1930, Ann. Soc. Ent. France, 99 : 344 (Tonkin ; HAMBURG).

Distribution : Vietnam.

No additional material was examined beside the type series.

Paridea (Paridea) circumdata Laboissière

Paridea circumdata Lab., 1930, Ann. Soc. Ent. France, 99 : **345** (Tonkin).

Distribution : Vietnam.

I could not trace the type location of this species.

Paridea (Paridea) luteofasciata Laboissière

Paridea luteofasciata Lab., 1930, Ann. Soc. Ent. France, 99 : **343** (Tonkin ; HAMBURG).

Distribution : Vietnam.

No additional material was examined beside the type series.

Paridea (Paridea) oculata Laboissière

Paridea oculata Lab., 1930, Ann. Soc. Ent. France, 99 : 346 (Sikkim ; PARIS).

Distribution : N. India, Thailand, Vietnam.

Material examined. THAILAND : Chiangmai Prov., Chiangmai, 1,200 m, 4 exs., 11. iv. 1966, J. Sedlacek ; Chiangmai Prov., Doi Suthep, 1 ex., 28-31. iii. 1958, 2 exs., 1-8. iv. 1958, T. C. Maa ; 50 km W. of Tak, 900 m, **2 exs., 7-8** iv. 1966, J. Sedlacek (BISHOP) ; Khon Kaen, 1 ex., 24. vii. 1980, S. Azuma (RU). VIETNAM : Fyan, 1,200 m, 2 exs., 11. vii.-9. viii. 1961, N. R. Spencer (BISHOP).

Paridea (Paridea) perplexa (Baly)

Aulacophora perplexa Baly, 1879, Cist. Ent., 2 : 447 (Assam ; BM).

Paridea perplexa : Baly, 1889, Trans. Ent. Soc. London, 1889 : 304 (genus).-Maulik, 1936, Fauna India, Galeruc. : 505 (India, Burma).-Kimoto, 1970, Khumbu Himal, 3(3) : 417 (Nepal).
—Kimoto & Takizawa, 1972, Kontyû, Tokyo, 40(4) : 217 (Nepal) ; 1984, Bull. Natn. Sci. Mus. Tokyo, ser. A, 9(2) : 92 (Nepal).

Paridea harmandi Laboissière, 1930, Ann. Soc. Ent. France, 99 : 340 (NE Yunnan, Sikkim ; HAMBURG). New **synonym**.

Distribution : India, Nepal, Burma, Vietnam, S. China.

Material examined. VIETNAM : Dilinh (Djiring), 1,200 m, 1 ex., 22-28. iv. 1960, L. W. Quate ; 24 km S. of Dilinh (Djiring), 1,050 m, 1 ex., 29. iv. 1960, R. E. Leech ; 17 km S. of Dilinh, 1,300 m, 1 ex., 6-13. x. 1960, C. M. Yoshimoto ; 10 km E. of Banme Thuot, 1 ex., 10. v. 1960, R. E. Leech ; 20 km N. of Pleiku, 650 m, 1 ex., 9. v. 1960, L. W. Quate (BISHOP).

Paridea (Paridea) subviridis Laboissière Fig. 17a

Paridea subviridis Lab., 1930, Ann. Soc. Ent. France, 99 : 341 (Tonkin ; HAMBURG).

Distribution : Vietnam.

No additional material was examined beside the type series.

Paridea (Paridea) tetraspilota (Hope)

Galleruca tetraspilota Hope, 1831, in Gray, Zool. Misc. : 29 (Nepal ; BM).

Monolepta tetraspilota : Weise, 1924, Col. Cat. Junk, 78 : 173 (Nepal).

Paridea tetraspilota : Maulik, 1936, Fauna India, Galeruc. : 501 (India, Nepal, Burma, Yunnan, Siam, Formosa).

Paridea (Paridea) tetraspilota : Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B : 516 (China).

Paridea thoracica Baly, 1886, J. Linn. Soc., Zool., 20 : 29 (India).-Laboissière, 1930, Ann. Soc. Ent. France, 99 : 340 (Cambodia, Cochinchine : Mont de Chaudoc).-Maulik, 1936, Fauna India, Galeruc. : 51 (= *tetraspilota*).

Distribution : India, Nepal, Thailand, Cambodia, Laos, Vietnam, S. China, Taiwan.

Material examined. THAILAND : Chiangmai Prov., Chiangdao, 3 exs., 5-11. iv. 1958, T. C. Maa (BISHOP) ; Khon Kaen, 3 exs., 24. vii. 1980, S. Azuma (RU). LAOS : Vientiane Prov., Ban Van Eue, 1 ex., 12. iv. 1965, J. L. Gressitt, 2 exs., 15-31. v. 1965, 2 exs., 30. xi. 1965, 1 ex., 31. xii. 1965, Native collr ; Sedone Prov., Paksong, 1 ex., 6. viii. 1965, Native collr ; Sayaboury Prov., Sayaboury, 1 ex., 15. iv. 1965, J. L. Gressitt (BISHOP). VIETNAM : 31 km S. of Dilinh (Djiring), 1,050 m, 2 exs., 29. iv. 1960, R. E. Leech ; Banme Thuot, 500 m, 2 exs., 16-18. v. 1960, L. W. Quate (BISHOP).

Subgenus **Semacia** Fairmaire

Semacia Fairmaire, 1889, Ann. Soc. Ent. France, 58 : 82 (type : *Semacia biplagiata* Fairmaire ; China).-Ogloblin, 1936, Fauna USSR, 26, 1 : 167, 398 (subgenus of *Paraulaca*, but included the type of the latter).

***Par-idea (Semacia) pectoralis* (Laboissière), new combination**

Semacia pectoralis Lab., 1930, Ann. Soc. Ent. France, 99 : 333 (Tonkin ; PARIS).

Distribution : Vietnam.

No additional material was examined beside the type.

Genus *Trichomimastra* Weise

Trichomimastra Weise, 1922, Tijdschr. Ent., 65 : 75 (type : *Mimastra seminigra* Weise ; Banguay).

—Ogloblin, 1936, Fauna USSR, 26, 1: 181.—Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B : 543.

***Trichomimas tra hirsuta* (Jacoby), new combination** Fig. 2a

Mimastra hirsuta Jacoby, 1892, Ann. Mus. Civ. Genova, 32 : 945 (Burma ; GENOVA).

Mimastra (Trichomimastra) membranacea Weise, 1922, Tijdschr. Ent., 65 : 77 (Tonkin ; STOCKHOLM). New **synonym**.

Mimastra (Trichomimastra) piceipennis Laboissière, 1929, Ann. Soc. Ent. France, 98 : 287 (Siam ; PARIS). New **synonym**.

Mimastra (Trichomimastra) pectoralis Laboissière, 1929, Ann. Soc. Ent. France, 98 : 286 (Tonkin ; HAMBURG). New **synonym**.

Trichomimastra pectoralis : Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B : 546 (China).

Distribution : Burma, Thailand, Laos, Vietnam, Hainan.

The coloration of the dorsal surfaces is variable : 1) entirely yellowish to reddish brown, 2) pronotum yellowish to reddish brown, elytron pitchy black, 3) the dorsal surfaces generally yellowish to reddish brown, elytron with the sutural, the lateral and the apical margins blackish, 4) the dorsal surfaces entirely pitchy black.

Material examined. THAILAND : Chiang Mai Prov., Doi Suthep, 2 exs., 28-31. iii. 1958, T. C. Maa, 1 ex., 8. vi. 1965, P. D. Ashlock ; Banna, Chawang, nr. Nabon, 1 ex., 5. ix. 1958, J. L. Gressitt, 1 ex., 5-10. iv. 1958, T. C. Maa (BISHOP) ; Chiangmai Prov., Doi Suthep, 1,000 m, 1 ex., 16. vi. 1965, K. Morimoto ; Khao Chong, nr. Trung, 1 ex., 25. vi. 1965 (KU). LAOS : Vientiane, Prov., Ban Van Eue, 800 m, 27 exs., 11-15. iv. 1965, J. L. Gressitt, 2 exs., 1-15. v. 1965, Malaise trap, J. A. Rondon, 3 exs., 15. xii. 1965, 1 ex., 29. iii. 1966, 1 ex., 30. xi. 1966, 1 ex., 31. xii. 1968, Native collr ; Sayaboury, 3 exs., 15. iv. 1965, J. L. Gressitt ; Borikhane Prov., Pakkading, 100-200 m, 1 ex., 23. iv. 1965, J. L. Gressitt (BISHOP) ; Umgeb. Vientiane, 1 ex., iii-vi. 1965 (MUNCHEN). VIETNAM : Mt. Lang Bian, 1,500-2,000 m, 4 exs., 19. v.-8. vi. 1961, N. R. Spencer ; Fyan, 900-1,000 m, 4 exs., 11. vii.-9. viii. 1961, N. R. Spencer ; Dilinh (Djiring), 1,200 m, 1 ex., 22-28. iv. 1960, L. W. Quate ; Dalat, 1,500 m, 1 ex., 29. iv.-4. v. 1960, L. W. Quate ; Dalat, 6 km S., 1,400-1,500 m, 2 exs., 9. vi.-7. vii. 1961, N. R. Spencer (BISHOP).

Genus *Siemssenius* Weise

Siemssenius Weise, 1922, Tijdschr. Ent., 65 : 73 (type : *Siemssenius modesta* Weise ; China).

—Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B : 555.—Seeno & Wilcox, 1982, Entomography, 1 : 111.

Pseudoliroetis Laboissière, 1929, Ann. Soc. Ent. France, 98 : 280 (type : *Liroetis fulvipennis* Jacoby ; China).—Ogloblin, 1936, Fauna USSR, 26, 1 : 204.—Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B : 529.

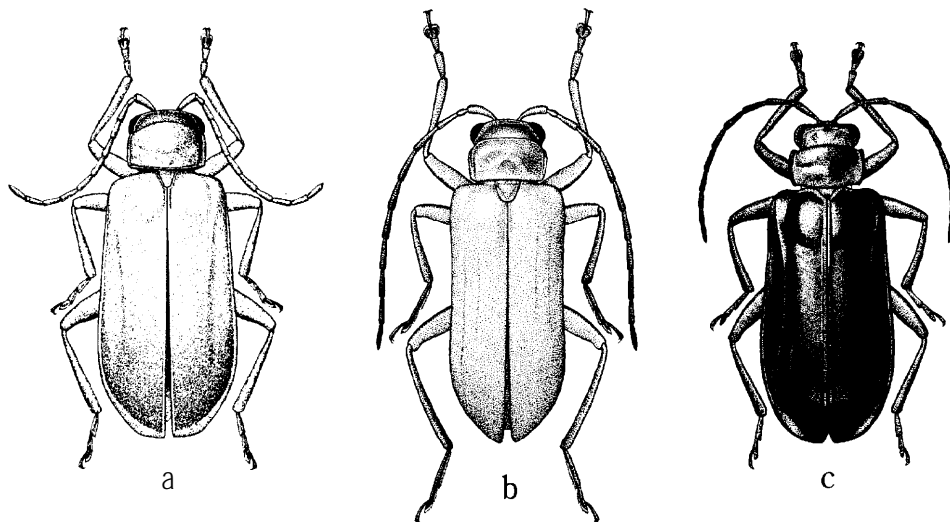


Fig. 18. a, *Haplosomoides flavus* Laboissike ; b, *H. annamitus* (Allard) ; c, *H. costatus* Baly.

***Siemssenius fulvipennis* (Jacoby), new combination**

Fig. 22a

Liroetis fulvipennis Jac., 1890, Entomolog., 23 : 215, fig. (China ; BM).

Pseudoliroetis fulvipennis : Laboissiere, 1929, Ann. Soc. Ent. France, 98 : 281 (China).-Ogloblin, 1936, Fauna USSR, 26, 1 : 206, 405 (China).-Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B : 530, fig. (China).

Pseudoliroetis jeanvoinei Laboissière, 1929, Ann. Soc. Ent. France, 98 : 281 (Tonkin ; HAM - BURG). New **synonym**.

Distribution : Vietnam, China.

Oblong oval ; generally reddish to yellowish brown, antenna and legs entirely blackish ; length 11.0-14.0 mm.

No additional material was examined beside the type series.

Genus **Haplosomoides** Duvivier

Haplosomoides Duv., 1890, C. R. Soc. Ent. Belg., 34 : 35 (type : *Rhaphidopalpa serena* Boheman ; E. Indies).-Maulik, 1936, Fauna India, Galeruc. : 162.—Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B : 517.

KEY TO SPECIES OF *Haplosomoides*

- | | | |
|------|--|-----------------|
| 1 | Elytron not entirely brownish, at least partly blackish | 2 |
| | Elytron entirely brownish | 3 |
| 2(1) | Elytron black with posterior half yellowish brown ; generally black, antenna yellowish brown ; length 9.0 mm | <i>plicatus</i> |
| | Elytron entirely black ; head, pronotum and legs yellowish brown ; length 6.7-7.0 mm | <i>costatus</i> |

- 3(1) Abdomen entirely brownish 4
 Abdomen entirely blackish ; generally yellowish brown ; length 5.0-6.3 mm *annamitus*
- 4(3) Antenna blackish with basal segments brownish ; pronotum 1 3/4 times as wide as long ; generally yellowish brown ; in male, ventral surface of first abdominal segment with a distinct, long projection apically ; length 5.7-6.3 mm *appendiculatus*
 Antenna entirely yellowish brown ; pronotum 1 1/2 times as wide as long ; generally yellowish brown ; in male without any long projection apically ; length 5.7-6.3 mm *flavus*

***Haplosomoides annamitus* (Allard), new combination** Fig. 18b

Hoplasoma annamita Allard, 1888 (1889), Ann. Soc. Ent. France, ser. 6, 8: 328, 330 (Annam ; PARIS).

Haplosomoides egena Weise, 1922, Tijdschr. Ent., 65 : 74 (China, Tonkin).—Laboissière, 1930, Ann. Soc. Ent. France, 99 : 326 (Tonkin).—Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B : 518 (China, Vietnam).—Kimoto, 1984, Ent. Rev. Japan, 39(1) : 49 (Taiwan). New **synonym**.

Distribution : Nepal, Bhutan, Thailand, Laos, Vietnam, China, Taiwan.

I could not trace the type location of *Haplosomoides egena* Weise. My identification of this species is based on the material identified by Laboissière, preserved in Stockholm.

Material examined. THAILAND : Chiangmai, 3,600 ft., 5 exs., 9-10. iv. 1953, Tak, 2,800 ft., 4 exs., 21. iii. 1958 (BANGKHEN) ; Chiangmai Prov., Doi Suthep, 4 exs., 1-5. iv. 1958, T. C. Maa (BISHOP) ; Chiangmai Prov., Doi Suthep, 1,000 m, 2 exs., 18-19. vi. 1965, K. Morimoto & Y. Miyatake ; Chiang Dao, 1 ex., 23. iv. 1973, Y. Yoshiyasu (KU). LAOS : Vientiane Prov., Ban Van Eue, 1 ex., 14-15. iv. 1965, J. L. Gressitt, 2 exs., 1-15. v. 1965, J. A. Rondon, 1 ex., 15-31. iv. 1965, Native collr ; Khamouane Prov., Phon Tiou, 1 ex., 17. v. 1965, Native collr (BISHOP) ; Umgeb. Vanky, 3 exs., 1963 ; Umgeb. Paklay, 2 exs., 1963 (MUNCHEN). VIETNAM : Dalat, 6 km S., 1,400-1,500 m, 2 exs., 9. vi.-7. vii. 1961, N. R. Spencer ; 7 km SE of Dilinh, 990 m, 1 ex., 2. v. 1960, R. E. Leech (BISHOP).

***Haplosomoides appendiculatus* Laboissière**

Haplosomoides appendiculata Lab., 1930, Ann. Soc. Ent. France, 99 : 328 (Tonkin ; BRUXELLES).—Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B : 518 (Hainan).

Haplosomedia sarrata: Chûjô, 1964, Nature and Life in SE Asia, Kyoto, 3 : 292 (Thailand).

Distribution : Thailand, Laos, Vietnam, Hainan.

Material examined. THAILAND: Banna, Nakhon, 108 m, 1 ex., 5-10. v. 1958, T. C. Maa (BISHOP). LAOS : Vientian Prov., Ban Van Eue, 7 exs., 13-15. iv. 1965, J. L. Gressitt, 4 exs., 1-15. v. 1965, J. A. Rondon, 1 ex., 15-31. iv. 1965, 15 exs., 15-31. v. 1965, 1 ex., 15. vii. 1965, 1 ex., 31. vii. 1965, 2 exs., 15. viii. 1965, 1 ex., 30. xi. 1965, 11 exs., 15. v. 1966, 1 ex., 30. vi. 1966, 9 exs., 31. v. 1966, 1 ex., 15. ii. 1967, 6 exs., 15. v. 1967, 5 exs., 30. vi. 1967, 7 exs., 30. viii. 1967, 5 exs., 15. ix. 1967, 8 exs., 30. ix. 1967, Native collr ; Khamouane Prov., Phon Tiou, 11 ex., 11. vi. 1965, N. Wilson, 2 exs., 30. iv. 1965, Native collr ; Sedone Prov., Paksong, 1 ex., 26. vii. 1965, Native collr ; Borikhane Prov., Pakkading, 1 ex., 13. vii. 1965, J. L. Gressitt ; Sayaboury, 3 exs., 15. iv. 1965, J. L. Gressitt (BISHOP). VIETNAM : Ban Me Thuot, 500 m, 1 ex., 16-18. v. 1960, L. W. Quate ; Dak Sog, 76 km SW of Ban Me Thuot, 870 m, 1 ex., 19-21. 1960, L. W. Quate (BISHOP).

Haplosomoides costatus (Baly) Fig. 18c

Mimastra costata Baly, 1878, Ann. Mag. Nat. Hist., ser. 5, 2 : 415 (China ; BM).-Weise, 1922, Tijdschr. Ent., 65 : 75 (Fokien, W. Formosa).

Haplosomoides costata :Laboissière, 1930, Ann. Soc. Ent. France, 99 : 325 (Tonkin, Kweichow).-Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B : 518 (China).

Distribution : S. China, Hainan, Taiwan, Vietnam, Ryukyu Is.

No additional material was examined.

Haplosomoides flavus Laboissière Fig. 18a

Haplosomoides flava Lab., 1930, Ann. Soc. Ent. France, 99 : 326 (Tonkin ; BRUXELLES).-Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B : 520 (Vietnam).

Haplosoma ceylonensis :Allard, 1889, Ann. Soc. Ent. France, 1889 : 308 (Hue).-Laboissière, 1935, Ass. Nat. Levallois-Perret, 21 : 140 (corrected as *Haplosomoides flava*).

Distribution : Thailand, Laos, Vietnam.

Material examined. THAILAND : Trang, 3 exs., 1-18. iv. 1960 (BANGKHEN) ; Chiang Mai Prov., Doi Suthep, 5 exs., 1-5. iv. 1958, 1 ex., water margin, 29. iii.-4. v. 1958, T. C. Maa ; Khao Yai, 1 ex., 10. iv. 1963, Native collr ; Phliu, 1 ex., 22. iv. 1963, Native collr (BISHOP) ; Chiangmai Prov., Doi Suthep, 1,000 m, 1 ex., 12. vi. 1965, K. Morimoto ; Chiangmai Prov., Tankeo, Doi Suthep, 800 m, 1 ex., 10. vi. 1965, Y. Miyatake ; Kao Chong, nr. Trung, 9 exs., 25-26. vi. 1965, K. Morimoto & Y. Miyatake (KU). LAOS : Umgeb. Vientiane, 1 ex., iii-vi. 1963 (MUNCHEN) ; Vientiane Prov., Ban Van Eue, 1 ex., 1-15. v. 1965, J. A. Rondon ; Borikhane Prov., Pakkading, 1 ex., 13. vii. 1965, J. L. Gressitt ; Sayaboury, 1 ex., 13. vii. 1965, J. L. Gressitt (BISHOP). VIETNAM : Ban Me Thuot, 500 m, 9 exs., 16-18. v. 1960, S. Quate & L. W. Quate ; Dilinh (Djiring), 1 ex., 27. ix.-14. x. 1960, C. M. Yoshimoto ; 7 km SE of Dilinh, 1 ex., 990 m, 2. v. 1960, R. E. Leech ; 17 km S. of Dilinh, 1,300 m, 2 exs., 6-13. x. 1960, C. M. Yoshimoto ; 50 km SW of Pleiku, 250 m, 2 exs., 14. v. 1960, L. W. Quate ; 25 km SW of Pleiku, 400 m, 1 ex., 12. v. 1960, L. W. Quate (BISHOP).

Haplosomoides plicatus (Allard) Fig. 19a

Pseudocophora plicata All., 1887, Ann. Soc. Ent. France, ser. 6, 7 : 201 (Malacca) ; 1888 (1889), *ibid.*, ser. 6, 8 : 325 (Malacca).

Haplosomoides plicata :Duvivier, 1890, C. R. Soc. Ent. Belg., 34 : 35, ann 1 (Malacca).

Distribution : Thailand, Malaya.

Material examined. THAILAND: Cholburi, 1 ex., 4. vii. 1963, Native collr (BISHOP).

Genus **Fleutiauxia** Laboissière

Fleutiauxia Lab., 1933, Ann. Soc. Ent. France, 102 : 53 (type :*Fleutiauxia cyanipennis* Laboissière ; Tonkin).-Ogloblin, 1936, Fauna USSR, 26, 1 : 183 (type : *Aenida armata* Baly ; Japan).

KEY TO SPECIES OF *Fleutiauxia*

Meso- and metathorax, and abdomen black ; generally yellowish brown, elytron bluish black, antenna somewhat infusate ; in male head with a deep transverse excavation and a short tubercle at middle ; length 5.8-6.5 mm *cyanipennis*

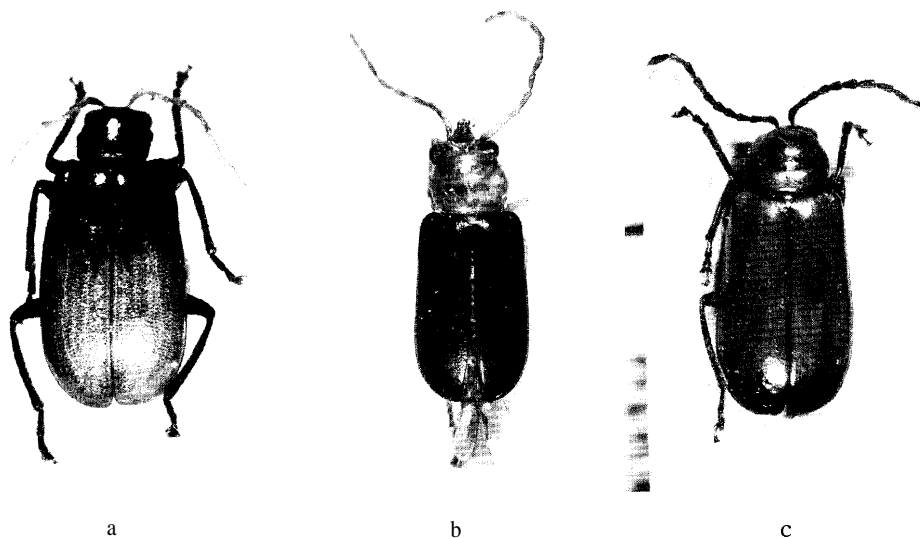


Fig. 19. a, *Haplosomoides plicatus* (Allard); b, *Fleutiauxia violaceipennis* n. sp.; c, *Taumacera pulchella* (Laboissière).

Ventral surfaces entirely yellowish to reddish brown; generally yellowish to reddish brown, elytron violaceous blue, antenna somewhat infusate; in male head with a long, subparallel-sided projection; length 4.8-5.1 mm *violaceipennis*

***Fleutiauxia cyanipennis* Laboissière**

Fleutiauxia cyanipennis Lab., 1933, Ann. Soc. Ent. France, 102 : 54 (Tonkin; HAMBURG).

Distribution : Vietnam.

No additional material was examined beside the type series.

***Fleutiauxia violaceipennis* n. sp. Fig. 19b**

Generally yellowish to reddish brown, elytron violaceous blue, antenna dark reddish brown, with two or three basal segments paler, legs with tibiae and tarsi more or less infusate.

Head with vertex finely granulate, sparsely impressed by minute punctures, interocular space much wider than transverse diameter of single oculus, and interocular transverse impression distinct, frontal tubercles, subtriangular distinctly separated to each other, slightly raised, surface finely granulate. Antenna slender, nearly $\frac{3}{4}$ as long as body length; first segment robust, second nearly half as long as first, third $2\frac{1}{5}$ times as long as second, fourth subequal to third in length and shape, fifth slightly shorter than fourth, fifth to ninth subequal to each other in length and shape, tenth slightly shorter than ninth, eleventh subequal to ninth in length but its apex pointed. Pronotum transverse, $1\frac{2}{5}$ times as broad as long, anterior margin distinctly rounded anteriorly, lateral margin distinctly rounded, widest slightly before middle, slightly narrowed anteriorly and more strongly so posteriorly, basal margin slightly rounded posteriorly, almost straight at middle, dorsal surface convex, with a pair of shallow depressions laterally, finely granulate, nearly impunctate. Scutellum subtriangular, finely granulate, impunctate. Elytron with lateral margin subparallel-sided, apex

rounded, surface finely granulate and impressed by distinct punctures and their interstices clearly wider than average diameter of punctures.

Male : Head with a long, subparallel-sided projection on frons. Female : Unknown.

Length : 4.8-5.1 mm.

Holotype (BISHOP) : LAOS : Sedone Prov, Pakse, 11. v. 1965, P. D. Ashlock. Paratype : LAOS : Sedone Prov., 5 km E. of Pakse, 1 ex., 13. v. 1965, P. D. Ashlock (KIMOTO).

This new species resembles *Fleutiauxia cyanipennis* Laboissière, but differs in having the ventral surfaces entirely yellowish to reddish brown, and in the male head with a long, subparallel-sided projection on frons.

Genus **Taumacera** Thunberg

Taumacera Thunb., 1814, Vet. Acad. Handl. : 48 (type : *Taumacera deusta* Thunberg ; India).

—Maulik, 1936, Fauna India, Galeruc. : 479.—Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B : 520.

Cerophysa Chevrolat, 1837, in Dejean, Cat. Col., ed. 3 : 403 (type : *Galleruca nodicornis* Wiedemann ; Java ; monobasic).—Ogloblin, 1936, Fauna USSR, 26, 1 : 171, 372.

Ozomena Chevrolat, 1837, in Dejean, Cat. Col., ed. 3 : 403 ; 1845, in d'Orbigny, Dict. Univ. Hist. Nat., 6 : 5 (type : *Galleruca nodicornis* Wiedemann ; Java).

Cerophyta Blanchard, 1845, Hist. Insect., 2 : 190.—Strand, 1935, Folia Zool.-Hydrobiol., 7 : 285.

Neocharis Jacoby, 1881, Proc. Zool. Soc. London, 1881 : 448 (type : *Neocharis fulvicollis* Jacoby ; Java ; monobasic).

Metallus Jacoby, 1886, Ann. Mus. Civ. Genova, 24 : 63 (new name for *Neocharis* Jacoby, nec Sharp, 1877, Eucnemidae).

Nacreia Baly, 1886, Trans. Ent. Soc. London, 1886 : 29 (type : *Nacreia maculata* Baly = *Neocharis fulvicollis* Jacoby ; Java).

KEY TO SPECIES OF *Taumacera*

- | | | |
|------|---|---------------------|
| 1 | Dorsal surfaces not entirely brownish | 2 |
| | Dorsal surfaces entirely yellowish brown ; generally yellowish brown ; length 5.7-6.3 mm | <i>doisuthetica</i> |
| 2(1) | Ventral surfaces partly brownish | 3 |
| | Ventral and dorsal surfaces entirely bluish or greenish | 6 |
| 3(2) | Body length longer than 6.0 mm | 4 |
| | Body length shorter than 5.0 mm | 5 |
| 4(3) | Dorsal surfaces entirely greenish ; generally bluish green, abdomen reddish brown ; length 7.0-7.5 mm | <i>metallica</i> |
| | Dorsal surfaces brownish, elytron with apex bluish, in some specimen its basal margin also ; generally yellowish brown, antenna, tibiae and tarsi infuscate ; in male eighth antennal segments enlarged ; length 6.0-7.0 mm | <i>pulchella</i> |
| 5(3) | Dorsal surfaces brownish, sutural and lateral margins narrowly piceous ; generally reddish brown with antenna and tarsi black ; length 4.0 mm | <i>siamensis</i> |
| | Elytron yellowish brown with basal and apical areas bluish ; generally pitchy black ; in some specimen pronotum reddish brown ; in male eighth antennal segment enlarged ; length 3.9-5.0 mm | <i>biplagiata</i> |
| 6(2) | Pronotum 1 1/3 times as wide as long, surface strongly and rather closely punctate, and interstices of punctures finely shagreened ; in male eighth antennal segment enlarged | |

ged; length 4.7-5.7 mm *coomani*
 Pronotum 1 1/4 times as wide as long, surface rather finely and not closely punctate,
 and interstices of punctures smooth, shining; in male third to fifth antennal segments
 deformed; length 5.3-5.7 mm *laosensis*

Taumacera biplagiata (Duvivier)

Cerophysa biplagiata Duviv., 1885, Stett. Ent. Ztg., 46: 393 (Hong Kong).-Weise, 1922, Tijdschr. Ent., 65: 69 (China, Tonkin).

Cerophysa biplagiata var. *ruficollis* Weise, 1922, Tijdschr. Ent., 65: 69 (locality not cited).

Cerophysa biplagiata collaris Chen, 1942, Notes d'Ent. Chinoise, 9(3): 32 (China).

Taumacera* (*Cerophysa*) *biplagiata: Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B: 523 (China).

Distribution : Thailand, Laos, Vietnam, S. China.

Material examined. THAILAND: Khao Yai Nat. Park, 1 ex., 6. v. 1965, Y. Miyatake (KU).
 LAOS: Borikhane Prov., Pakkading, 100-200 m, 1 ex., 23. iv. 1965, J. L. Gressitt (BISHOP); Umgeb.
 Vientiane, 1 ex., iii-iv. 1963; Umgeb. Pakse, 1 ex., 1963; Umgeb. Vankay, 1 ex., 1963 (MUNCHEN).

***Taumacera coomani* (Laboissière), new combination** Fig. 20b

Cerophysa coomani Lab., 1930, Ann. Soc. Ent. France, 99: 351 (Tonkin; HAMBURG).

Distribution : Laos, Vietnam.

Material examined, LAOS: Vientiane Prov., Ban Van Eue, 2 exs., 12. iv. 1965, 1 ex., 14. iv. 1965,
 J. L. Gressitt, 1 ex., 1-15. v. 1965, J. A. Rondon, 1 ex., 29. iv. 1966, Native collr; Vientiane Prov., Phou-
 kow-kuei, 1 ex., 15. iv. 1965, J. L. Gressitt; Sayaboury Prov., Sayaboury, 1 ex., 15. iv. 1965, J. L.
 Gressitt (BISHOP).

***Taumacera doisuthepica* n. sp.** Fig. 20c

Generally yellowish brown.

Head with vertex smooth, shining, nearly impunctate, interocular space much wider than transverse diameter of single oculus, and interocular transverse impression distinct, frontal tubercle subtriangular, contiguous, distinctly raised, surface somewhat wrinkled. Antenna slender, nearly 2/3 as long as body length; first segment long, robust, second shortest, nearly 1/3 as long as first, third 2 1/5 times as long as second, fourth 1 1/4 times as long as third, fifth slightly shorter than fourth, fifth to seventh subequal to each other in length and shape, eighth slightly shorter than seventh, ninth subequal to eighth in length and shape, tenth slightly shorter than ninth, eleventh 1 1/2 times as long as tenth and its apex pointed. Pronotum 1 3/4 times as broad as long, anterior margin distinctly rounded posteriorly, lateral margin distinctly rounded, widest almost at 1/3 from anterior margin, slightly narrowed anteriorly and more strongly so posteriorly, basal margin slightly rounded posteriorly, dorsal surface convex, smooth, shining, sparsely impressed by minute punctures, and with a deep subbasal transverse depression. Scutellum subtriangular, somewhat wrinkled, impunctate. Elytron with lateral margin subparallel-sided, apex rounded, surface finely impressed by distinct punctures and their interstices smooth and shining.

Length : 5.7-6.3 mm.

Holotype (Type No. 2698, Kyushu Univ.) : THAILAND : Chiangmai Prov., Doi Suthep, 1,000 m, 12. vi. 1965, Y. Miyatake. Paratypes : 3 exs., same data as the holotype but K. Morimoto (KU, KIMOTO).

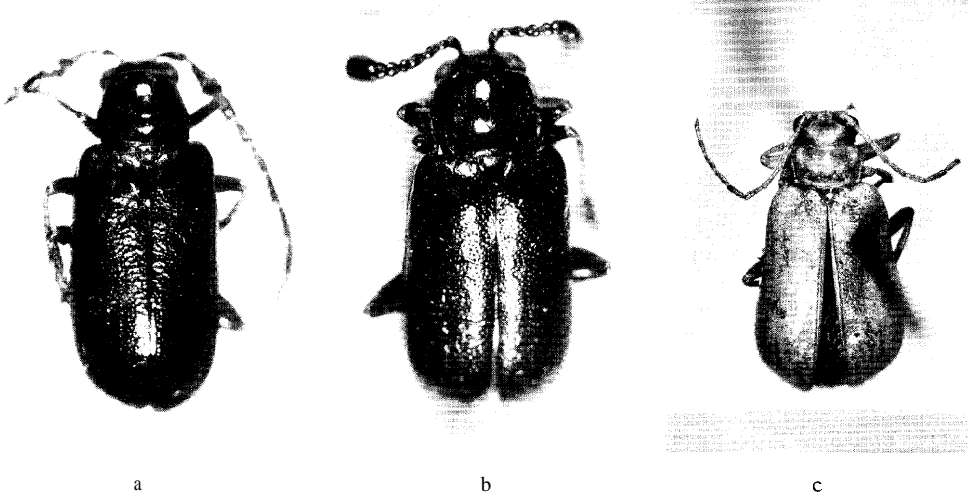


Fig. 20. a, *Taumacera laosensis* n. sp.; b, *T. coomani* (Laboissière); c, *T. doisuthepica* n. sp.

This new species somewhat resembles *Taumacera pulchella* (Laboissière), but differs in having elytron entirely yellowish brown, and antenna and the legs entirely yellowish brown.

***Taumacera laosensis* n. sp.** Fig. 20a

Generally violaceous to greenish blue, antenna pitchy black with eleventh segment dark brown, legs generally pitchy black with bluish luster.

Head with vertex smooth, shining, sparsely impressed by fine punctures, interocular space distinctly wider than transverse diameter of single oculus, and interocular transverse impression feeble, frontal tubercle subtriangular, contiguous, slightly raised, surface smooth, shining, not distinctly delimited posteriorly. Antenna slender, nearly $\frac{3}{4}$ as long as body length; in male third to eleventh segments thickly covered by long hairs, first segment long, robust, second shortest, subspherical, nearly $\frac{1}{4}$ as long as first, third six times as long as second, and deeply sulcated apically, fourth short, nearly $\frac{1}{3}$ as long as third and sulcated as a whole, fifth elongate, nearly twice as long as fourth, sixth subequal to fifth in length and shape, seventh $2\frac{1}{4}$ times as long as sixth, eighth subequal to seventh in length and shape, ninth $1\frac{1}{5}$ times as long as eighth, tenth subequal to ninth in length and shape, eleventh $1\frac{1}{4}$ times as long as tenth and its apex pointed. Pronotum transverse, $1\frac{1}{4}$ times as broad as long, anterior margin distinctly rounded anteriorly, lateral margin slightly rounded, widest slightly before middle and slightly narrowed anteriorly and posteriorly, basal margin feebly rounded posteriorly, dorsal surface convex, smooth, shining, sparsely impressed by minute punctures and with a pair of deep depressions laterally. Scutellum subtriangular, smooth, shining, sparsely impressed by minute punctures. Elytron with lateral margin subparallel-sided, apex rounded, surface strongly and closely punctate, and interstices of punctures somewhat rugosed and clearly narrower than average diameter of punctures.

Male : Antenna with third to fifth segment deformed. **Female** : Unknown.

Length : 5.3-5.7 mm.

Holotype (BISHOP) : LAOS : Vientiane Prov., Vientiane, 31. v.-3. vi. 1960, S. Quate & L. Quate. Paratypes: 2 exs., same data as the holotype (BISHOP, KIMOTO).

This new species resembles *Taumacera coomani* (Laboissière), but differs in having pronotum more quadrate and with the surface smooth, shining, and in the male the third to the fifth antennal segments deformed.

***Taumacera metallica* (Laboissière), new combination**

Cerophysa metallica Lab., 1930, Ann. Soc. Ent. France, 99 : 350 (Tonkin; HAMBURG).

Distribution : Vietnam.

No additional material was examined beside the type series.

***Taumacera pulchella* (Laboissière), new combination** Fig. 19c

Cerophysa pulchella Lab., 1930, Ann. Soc. Ent. France, 99 : 348 (Tonkin; HAMBURG).

Taumacera* (*Cerophysa*) *pulchella : Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B : 525 (China).

Distribution : Vietnam, China.

Material examined. "Indo-China", 1 ex. (BASEL).

***Taumacera siamensis* (Jacoby), new combination**

Cerophysa siamensis Jac., 1905, Fascic. Malay. Zool., App., 2 : 5 (Siam : Biserat, Jalor; BM).

Distribution : Thailand.

No additional material was examined beside the type series. The description of this species was made by the female specimens only and the male has not been known.

Genus ***Cneoranidea*** Chen

Cneoranidea Chen, 1942, Notes d'Ent. Chinoise, 9 : 31 (type : ***Cneoranidea signatipes*** Chen; China).

-Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B : 531.

***Cneoranidea maculata* n. sp.** Fig. 21a

Suboval; head, prothorax and scutellum reddish brown, elytron black with subbasal and postmedian markings yellowish brown; antenna black with one or two basal segments reddish brown, meso- and metathorax black, abdomen dark reddish brown, legs entirely black.

Head with vertex smooth, shining, sparsely impressed by minute punctures, interocular space distinctly wider than transverse diameter of single oculus, and interocular transverse impression distinct, deep, frontal tubercle oblique, subquadrate, contiguous, distinctly raised, surface smooth, shining. Antenna slender, nearly 2/3 as long as body length; first segment robust, club-shaped, second shortest, nearly 1/3 as long as body length, third nearly six times as long as second, fourth nearly 3/4 as long as third, fourth to ninth subequal to each other in length and shape, tenth slightly shorter than ninth, eleventh 1 1/3 times as long as tenth and its apex pointed. Pronotum transverse, 2 1/5 times as broad as long, anterior margin distinctly rounded posteriorly, lateral margin distinctly rounded, widest almost at middle, slightly narrowed anteriorly and posteriorly, basal margin strongly rounded posteriorly, anterior corner thickened, posterior corner pointed, dorsal surface convex side to side, nearly impunctate. Scutellum subtriangular, smooth, shining, impunctate. Elytron with lateral margin rounded, widened posteriorly, surface distinctly and closely punctate, and interstices of punctures smooth, shining.

Length : 5.3-6.8 mm.

Holotype (BISHOP) : LAOS : Vientiane Prov., Ban Van Eue, 13. iv. 1965, J. L. Gressitt. Paratopotypes: 3 exs., same data as the holotype (BISHOP, KIMOTO). Paratypes : THAILAND: Chiangmai Prov., Doi Suthep, 1 ex., 28-31. iii. 1958, T. C. Maa (BISHOP). LAOS : Vientiane Prov., Ban Van Eue, 1 ex., 1-15. J. A. Rondon, 2 exs., 15-31. iv. 1965, 1 ex., 1-15. v. 1965, Native collr (BISHOP).

This new species resembles *Cneoranidea signatipes* Chen, but differs in having elytron blackish with the subbasal and the postmedian markings yellowish.

Genus **Liroetis** Weise

Liroetis Weise, 1889, Horae Soc. Ent. Ross., 23 : 607 (type : **Liroetis aeneipennis** Weise ; NW China).-Maulik, 1936, Fauna India, Galeruc. : 311.—Ogloblin, 1936, Fauna USSR, 26, 1 : 207, 372.—Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B : 532.

KEY TO SPECIES OF *Liroetis*

- 1 Dorsal surfaces entirely brownish2....
Elytron bluish green ; generally yellowish brown ; antenna with apical three or four segments blackish ; length 12.0 mm*viridipennis*
- 2(1) Entirely yellowish to reddish brown ; in male eleventh antennal segment with a small blackish spot apically ; length 6.2-9.0 mm***apicicornis***
Generally yellowish to reddish brown ; antenna, tibiae and tarsi pitchy brown to black ; length 14.0 mm*clermonti*

Liroetis apicicornis (Jacoby)

Liroetes apicicornis Jac., 1896, Ann. Soc. Ent. Belg., 40 : 282 (S. Bombay : Kanara ; BM).

Liroetis apicicornis : Maulik, 1936, Fauna India, Galeruc. : 313, fig. (India).

Distribution : India, Thailand, Laos, Vietnam.

Material examined. THAILAND : Chiangmai, 1,100 ft., 4 exs., 19. vi. 1936 ; Phrae, 3 exs., 2. v. 1938, 2 exs., 18. vi. 1938, 1 ex., 5. ix. 1938 (BANGKHEN). LAOS : Vientiane Prov., Ban Van Eue, 1 ex., 15-31. iv. 1965, 3 exs., 15-31. v. 1965, Native collr ; Wapikhamthong Prov., Khong Sedone, 1 ex., 17. ix. 1965, Native collr (BISHOP) ; Umgeb. Vientiane, 1 ex., iii-vi. 1963 (MUNCHEN). VIETNAM : "Annam", 1 ex., 1927 (BASEL).

Liroetis clermonti (Laboissière), **new combination**

Pseudoliroetis clermonti Lab., 1929, Ann. Soc. Ent. France, 98 : 282 (Tonkin : Chapa ; HAMBURG).

Distribution : Vietnam.

This species closely resembles **Liroetis nepalensis** Chûjô, from Nepal, but differs in being the body length longer (14.0 mm). In *nepalensis*, the body length is 8.0-10.0 mm.

No additional material was examined beside the type series.

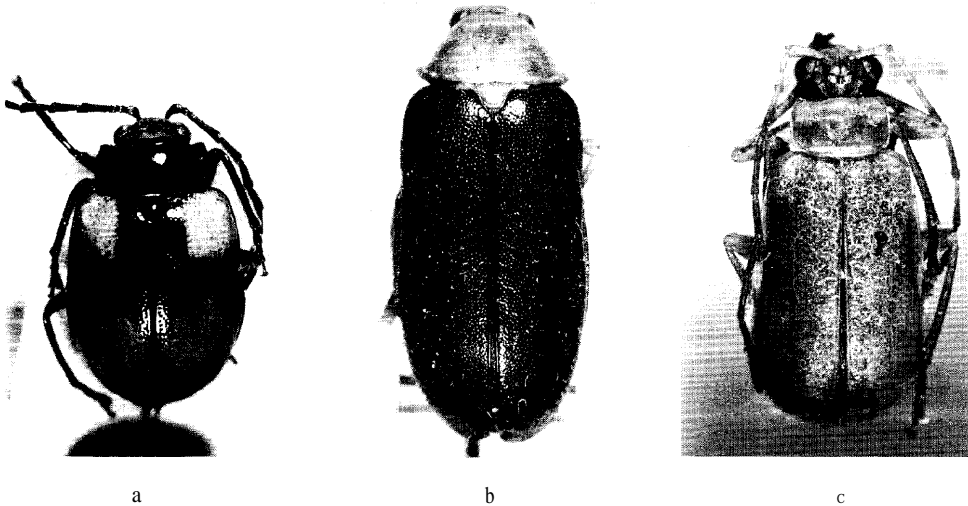


Fig. 21. a, *Cneorunidea maculata* n. sp. ; b, *Liroetis viridipennis* n. sp. ; c, *Mimastra badia* n. sp.

Liroetis viridipennis n. sp. Fig. 21b

Generally yellowish brown, antenna with three or four apical segments pitchy black.

Head with vertex closely impressed by large punctures and their interstices finely granulate, interocular space distinctly wider than transverse diameter of single oculus, and interocular transverse impression distinct only on middle, frontal tubercle subtriangular, contiguous, distinctly raised, surface impressed by fine punctures. Antenna slender, nearly $4/5$ as long as body length ; first segment robust, club-shaped, second shortest, nearly $1/3$ as long as first, third $2\frac{2}{3}$ times as long as second, fourth $1\frac{2}{3}$ times as long as third, fifth to seventh subequal to each other in length and shape, eighth slightly shorter than seventh, ninth slightly shorter than eighth, tenth slightly shorter than ninth, eleventh subequal to ninth in length but its apex pointed. Pronotum transverse, $1\frac{2}{3}$ times as broad as long, anterior margin slightly rounded posteriorly, lateral margin distinctly rounded, widest almost at middle, strongly narrowed anteriorly and less strongly so posteriorly, basal margin distinctly rounded posteriorly, and slightly concaved before scutellum, dorsal surface convex, sparsely impressed by large punctures and their interstices impressed by minute punctures, and with a pair of feeble depressions laterally. Scutellum subtriangular, impressed by distinct punctures and their interstices finely granulate. Elytron with lateral margin subparallel-sided, and apex rounded, surface distinctly and closely punctate, and interstices of punctures finely granulate.

Length : 12.0 mm.

Holotype (BISHOP) : LAOS : Vientiane Prov., Ban Van Eue, 1 ex., 16. iii. 1966, Native collr. Paratype : LAOS : Umgeb. Vanky, 1 ex., 1964 (MUNCHEN).

This new species resembles *Liroetis clermonti* (Laboissière), but differs in having elytron entirely bluish green and the legs entirely yellowish brown.

Genus *Mimastra* Baly

Mimastra Baly, 1865, Ann. Mag. Nat. Hist., ser. 3, 16: 253 (type : *Mimastra arcuata* Baly ; Andaman Is.).-Chapuis, 1875, Gen. Col., 11: 178, 179.—Maulik, 1936, Fauna India, Galeruc. :

524.—Ogloblin, 1936, Fauna USSR, 26, 1 : 176.—Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B : 535.

Anthraxantha Fairmaire, 1878, Ann. Soc. Ent. France, ser. 5, 8 : 137 (type : *Anthraxantha davidis* Fairmaire ; China).

Brachita Allard, 1889, C. R. Soc. Ent. Belg., 33 : 103 (type : *Brachita terminata* Allard).

KEY TO SPECIES OF *Mimastra*

- | | | |
|-------|--|----------------------|
| 1 | Ventral surfaces entirely pale | 2 |
| | Ventral surfaces with meso- and metathorax black | 4 |
| 2(1) | Legs not largely black | 3 |
| | Legs almost entirely black ; generally yellowish to reddish brown, antenna pitchy black ; length 6.8-8.0 mm | <i>scutellata</i> |
| 3(2) | Elytron without costa latero-apically, elytral punctures stronger ; generally yellowish to reddish brown, with antenna, tibiae and tarsi blackish, in some specimen legs entirely brownish ; length 6.3-7.5 mm | <i>gracilicornis</i> |
| | Elytron with a costa latero-apically, elytral punctures finer ; generally yellowish to reddish brown, with antenna, tibiae and tarsi blackish ; length 6.5-7.5 mm | <i>apicalis</i> |
| 4(1) | Abdomen black | 5 |
| | Abdomen brownish ; generally yellowish brown, with metathorax, tibiae and tarsi blackish ; in most dark colored specimen apex of femora and apical margin of elytron blackish ; length 6.8-7.5 mm | <i>pectoralis</i> |
| 5(4) | Elytron not metallic dark green | 6 |
| | Elytron entirely metallic dark green ; head, antenna and pronotum reddish brown, ventral surfaces of meso- and metathorax and abdomen blackish ; legs black with femora reddish brown ; length 8.0 mm | <i>annandalei</i> |
| 6(5) | Dorsal surfaces with blackish marking | 7 |
| | Dorsal surfaces entirely brownish, except pronotum with ill-defined dark markings in some species | 10 |
| 7(6) | Elytron yellowish brown with blackish marking on basal 1/2 | 8 |
| | Elytron yellowish brown with apical 1/3 greenish or bluish, and some time a fine line extending forward ; generally yellowish brown with metathorax and abdomen bluish black, legs yellowish brown, dorsal surfaces of femora and tibiae and entire tarsi blackish | 9 |
| 8(7) | Elytron yellowish brown, with a longitudinal wide stripe pitchy black ; generally yellowish brown, antenna, metathorax and abdomen pitchy black ; legs with ventral surfaces of femora, and tibiae and tarsi blackish ; length 6.3-7.5 mm | <i>longicornis</i> |
| | Elytron yellowish brown with large anterior and posterior markings blackish ; generally yellowish brown with metathorax and abdomen largely blackish ; length 6.5 mm | <i>pygidia lis</i> |
| 9(7) | In male, first tarsal segment of anterior leg elongate with interior margin deeply emarginate ; length 7.5-9.0 mm | <i>unicitarsis</i> |
| | In male, first tarsal segment of anterior leg enlarged, rounded ; length 9.0-10.0 mm (Hope, 1831 ; Kashmir, India, Nepal, S. China) | <i>cyanura</i> |
| 10(6) | Third antennal segment nearly 1 1/2 times as long as second, and fourth more than twice as long as third ; pronotum with lateral margin rounded, and with shallow a pair of lateral, and an anterior and a posterior median depressions | 11 |

Third antennal segment more than twice as long as second, and fourth $1\frac{1}{2}$ times as long as third ; pronotum subquadrate, and with a deep transverse furrow which is interrupted at middle ; generally yellowish brown, metathorax and abdomen pitchy black, antenna somewhat infusate ; length 6.0-7.5 mm *persimilis*

- 11(10) Pronotum $1\frac{3}{4}$ times as wide as long, smaller than 6.0 mm ; first segment of anterior tarsus normal in male ; generally yellowish brown, with metathorax and abdomen pitchy black, antenna, tibiae and tarsi infusate ; length 5.3-6.8 mm *badia*
 Pronotum $1\frac{1}{2}$ times as wide as long, larger than 7.0 mm ; in male first segment of anterior tarsus enlarged, rounded ; generally yellowish brown, with metathorax and abdomen blackish, antenna pitchy brown with basal segments brownish, legs yellowish brown with most of tibiae and tarsi blackish ; length 7.8-8.4 mm *soreli*

***Mimastra annandalei* Jacoby**

Mimastra annandalei Jac., 1905, Fascic. Malay. Zool. Appl., 2 : 7 (Siamese Malaya : Bukit Besar, Nawngchick and Bansai Kau ; BM).

Distribution : Thailand.

No additional material was examined beside the type series.

***Mimastra apicalis* n. sp. Fig. 24a**

Generally yellowish to reddish brown, antenna pitchy black with four or five basal segments brownish, legs with middle and posterior tibiae and tarsi and anterior tarsi pitchy brown to black.

Head with vertex smooth, shining, nearly impunctate, interocular space much wider than transverse diameter of single oculus, and interocular transverse impression distinct, frontal tubercle

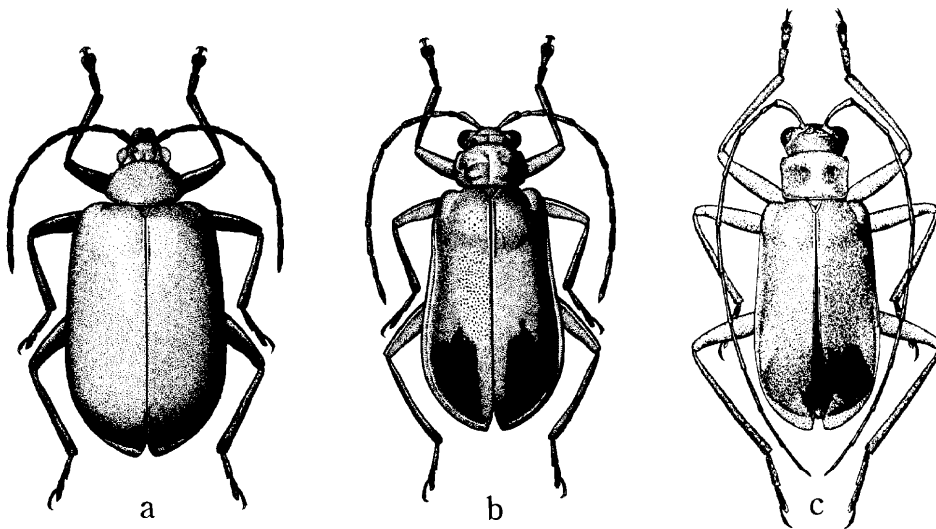


Fig. 22. a, *Siemssenius fulvipennis* (Jacoby) ; b, *Mimastra unicitarsis* Laboissière ; c, *M. longicornis* Jacoby.

strongly raised, subtriangular, contiguous, surface smooth, shining, impunctate. Antenna slender, nearly as long as body length ; first segment long, robust, second shortest, nearly $2/5$ as long as first, third $2\frac{2}{3}$ times as long as second, fourth $1\frac{1}{4}$ times as long as third, fifth slightly longer than fourth, fifth to ninth subequal to each other in length and shape, tenth slightly shorter than ninth, eleventh subequal to tenth in length and its apex pointed. Pronotum transverse, $1\frac{2}{5}$ times as broad as long, anterior margin nearly straight, lateral margin distinctly rounded, widest almost at $1/3$ from anterior margin, slightly narrowed anteriorly and more strongly so posteriorly, basal margin slightly rounded posteriorly and slightly concaved before scutellum, dorsal surface smooth, shining, sparsely impressed by minute punctures, and with a distinct transverse depression. Scutellum subtriangular, smooth, shining, impunctate. Elytron with lateral margin subparallel-sided, apex rounded, and with a distinct costa latero-apically, running parallel to lateral margin, surface strongly and rather closely punctate and their interstices smooth, shining.

Length : 6.5-7.5 mm.

Holotype (BISHOP) : VIETNAM : 25 km SW of Pleiku, 400 m, 12. v. 1960, L. W. Quate. Paratopotypes: 3 exs., same data as the holotype (BISHOP, KIMOTO). Paratypes: LAOS: Sedone Prov., Pakse, 31. v. 1965, Native collr (BISHOP). VIETNAM : Pleiku, 700 m, 1 ex., 8-14. v. 1960, L. W. Quate (BISHOP).

This new species resembles *Mimastra gracilicornis* Jacoby, but differs in having elytron with a distinct costa latero-apically and elytral punctures much finer.

***Mimastra badia* n. sp.** Fig. 21c

Generally yellowish brown, antenna pitchy black with four or five basal segments yellowish brown, ventral surfaces with metathorax and abdomen pitchy black, legs with tibiae and tarsi generally pitchy black.

Head with vertex somewhat wrinkled, sparsely impressed by minute punctures, interocular space much wider than transverse diameter of single oculus, and interocular transverse impression distinct, frontal tubercle subtriangular, contiguous, distinctly raised, surface smooth, impunctate. Antenna slender, nearly $3/4$ as long as body length ; first segment long, robust, second shortest, nearly $1/3$ as long as first, third $1\frac{1}{4}$ times as long as second, fourth $2\frac{4}{5}$ times as long as third, fifth slightly shorter than fourth, and fifth to eighth subequal to each other in length and shape, ninth slightly shorter than eighth, tenth slightly shorter than ninth, eleventh subequal to eighth in length and its apex pointed. Pronotum transverse, $1\frac{3}{4}$ times as broad as long, anterior margin distinctly rounded posteriorly, lateral margin slightly rounded, widest almost at middle, slightly narrowed anteriorly and posteriorly, basal margin distinctly rounded posteriorly and slightly concaved before scutellum, dorsal surface smooth, shining, sparsely impressed by minute punctures, and with a distinct transverse depression. Scutellum subtriangular, finely granulate, impunctate. Elytron with lateral margin subparallel-sided, apex rounded, surface strongly and rather closely punctate and their interstices somewhat wrinkled.

Length : 5.3-6.8 mm.

Holotype (BISHOP) : LAOS : Vientiane Prov., Ban Van Eue, 31. vii. 1965, Native collr. Paratopotypes : 23 exs., same data as the holotype (BISHOP, KIMOTO). Paratypes : THAILAND : Chiangmai Prov., Doi Suthep, 1 ex., 1-8. iv. 1958, T. C. Maa ; Khao Yai, 7 exs., 10. iv. 1963, Native collr (BISHOP). LAOS : Vientiane Prov., Ban Van Eue, 1 ex., 15. ii. 1967, 95 exs., 30. viii. 1967, Native collr ; Vientiane Prov., Gi Sion Vill., de Tha Ngone, 21 exs., 2. i. 1966, Native collr ; Borikhane Prov., Pakkading, 1 ex., 13. vii. 1966, Native collr ; Sedone Prov., Paksong, 1 ex., 16. v. 1965, Native collr ; Sayaboury Prov., Sayaboury, 1 ex., 25. viii. 1966, Native collr (BISHOP). VIETNAM : Dilinh

(Djiring), 920-1,200 m, 2 exs., 22-28. iv. 1960, S. Quate & L. Quate (BISHOP).

This new species closely resembles *Mimastra soreli* Baly, but differs in having pronotum much wider and in the male the first segment of the anterior tarsus not enlarged.

***Mimastra gracilicornis* Jacoby** Fig. 23b

Mimastra gracilicornis Jac., 1889, Ann. Mus. Civ. Genova, 27 : 210 (Burma; GENOVA).—Maulik, 1936, Fauna India, Galeruc. : 536 (Burma).—Kimoto, 1972, Tijdschr. Ent., 93(4) : 145 (Vietnam : Dalat).

Distribution : Burma, Thailand, Laos, Vietnam.

Material examined. THAILAND : Chiang Mai Prov., Doi Suthep, 1,000 m, 1 ex., 8. vi. 1965, S. Asahina, 1 ex., 12. vi. 1965, K. Morimoto ; Khao Yai Nat. Park, 1 ex., 5. vi. 1965, S. Asahina (KU) ; Chiang Mai Prov., Chiang Mai (Argoretum), 300 m, 2 exs., 12. vi. 1965, P. D. Ashlock (BISHOP). LAOS : Khammouane Prov., Phon Tiou, 1 ex., 11. vi. 1965, N. Wilson, 1 ex., 11-12. vi. 1965, J. A. Rondon, 2 exs., 30. iv. 1965, 1 ex., 17. v. 1965, Native collr ; Savanaket Prov., Savanaket, 2 exs., 20. vii. 1965, Native collr ; Vientiane Prov., Ban Van Eue, 1 ex., 15-31. v. 1965, Native collr ; Pon-horn, N. of Pakkading, 1 ex., 20. iv. 1965, J. A. Samuelson (BISHOP) ; Umgeb. Vientiane, 1 ex., 1963, Umgeb. Paklay, 3 exs., 1963 (MUNCHEN). VIETNAM : Dalat, 1,500 m, 4 exs., 29. iv.-5. v. 1960, S. Quate & L. W. Quate, 1 ex., 26-27. ix. 1960, J. L. Gressitt ; Dalat, 6 km S., 1,400-1,500 m, 9 exs., 9. vi.-7. vii. 1961, N. R. Spencer ; Dilinh (Djiring), 1,200 m, 5 exs., 22-28. iv. 1960, L. W. Quate ; 7 km SE of Dilinh (Djiring), 990 m, 2 exs., 2. v. 1960, R. E. Leech ; 30 km N. of Dilinh, 1 ex., 27. iv. 1960, S. Quate (BIHSOP).

***Mimastra longicornis* Jacoby** Fig. 22c

Mimastra longicornis Jac., 1892, Ann. Mus. Civ. Genova, 32 : 944 (Burma; GENOVA).—Maulik, 1936, Fauna India, Galeruc. : 535 (Burma).

Distribution : Burma, Thailand.

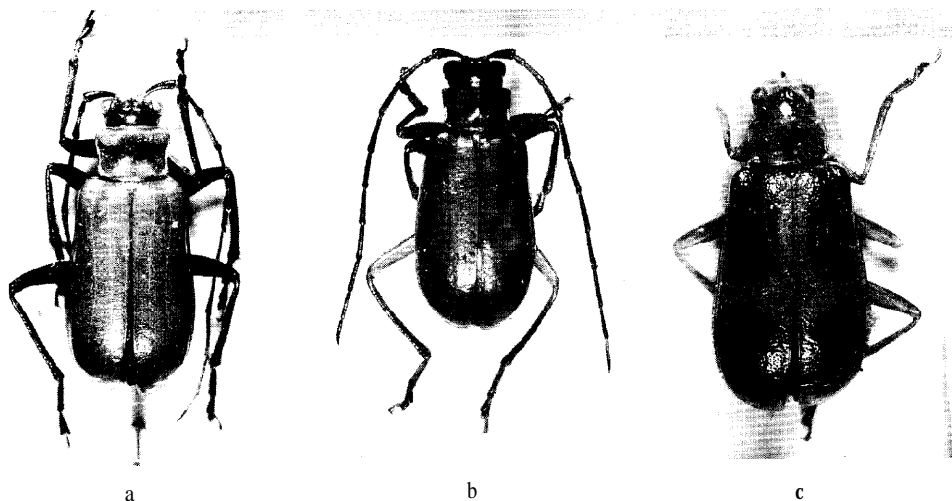


Fig. 23. a, *Mimastra scutellata* Jacoby ; b, *M. gracilicornis* Jacoby ; c, *M. pygidialis* Laboissière.

Material examined. THAILAND : Chiang Mai Prov., Doi Pui, 1,300 m, 7 exs., 17. vi. 1965, K. Morimoto ; Chiang Mai Prov., Doi Suthep, 1,000 m, 1 ex., 18. vi. 1965, K. Morimoto (KU)

***Mimastra pectoralis* n. sp.** Fig. 24c

Generally yellowish brown, ventral surfaces with metathorax black, legs with tibiae and tarsi pitchy black ; in most dark colored specimen apex of femora and apical margin of elytron blackish.

Head with vertex smooth, shining, sparsely impressed by minute punctures, interocular space much wider than transverse diameter of single oculus, and interocular transverse impression distinct, frontal tubercle subtriangular, contiguous, distinctly raised, surface smooth, impunctate. Antenna slender, nearly as long as body length ; first segment long, robust, second shortest, nearly $1/3$ as long as first, third $1\frac{1}{4}$ times as long as second, fourth $3\frac{1}{5}$ times as long as third, fifth slightly shorter than fourth, fifth to eighth subequal to each other in length and shape, ninth slightly shorter than eighth, tenth subequal to ninth in length and shape, eleventh subequal to tenth in length and its apex pointed. Pronotum transverse, nearly twice as broad as long, anterior margin rounded posteriorly, lateral margin feebly rounded, widest almost at middle, slightly narrowed anteriorly and posteriorly, basal margin distinctly rounded posteriorly, dorsal surface smooth, shining, sparsely impressed by minute punctures, and with a distinct transverse depression. Scutellum subtriangular, finely granulate, impunctate. Elytron with lateral margin subparallel-sided, apex rounded, surface strongly and rather closely punctate and their interstices smooth, shining.

Length : 6.8-7.5 mm.

Holotype (BISHOP) : LAOS : Sedone Prov., Paksong, 1 vi. 1965, Native collr. Paratypes : THAILAND : Nakhon Nayok Prov., Khao Yai Nat. Park, 1 ex., 6. vi. 1965, P. D. Ashlock (BISHOP). LAOS : Vientiane Prov., Ban Van Eue, 2 exs., 15. x. 1967, 1 ex., 15. viii. 1968, Native collr ; Vientiane Prov., Gi Sion Vill., de Tha Ngone, 1 ex., 2. i. 1966, Native collr ; Borikhane Prov, Pakkading, 2 exs., 13. vii. 1965, Native collr ; Sayaboury Prov., Sayaboury, 4 exs., 25. viii. 1966, Native collr (BISHOP, KIMOTO). CAMBODIA : Kiri Rom, 700 m, 1 ex., 31. iii.-7. iv. 1961, N. R. Spencer (BISHOP). VIETNAM : Fyan, 900-1,200 m, 3 exs., 11. vii.-9. viii. 1961, N. R. Spencer ; M'Drak, E. of Ban Me Thuot, 4-600 m, 1 ex., 8-19. xii. 1960, C. M. Yoshimoto (BISHOP).

This new species resembles *Mimastra soreli* Baly, but differs in having pronotum much wider and the abdomen entirely brownish.

***Mimastra persimilis* n. sp.** Fig. 24b

Generally yellowish brown, antenna pitchy brown with basal segments somewhat paler, ventral surfaces with metathorax and abdomen pitchy black, legs with tibiae and tarsi somewhat infuscate.

Head with vertex somewhat wrinkled, sparsely impressed by minute punctures, interocular space much wider than transverse diameter of single oculus, and interocular transverse impression distinct, frontal tubercle subtriangular, contiguous, distinctly raised, surface smooth, shining, impunctate. Antenna slender, nearly as long as body length ; first segment long, robust, second shortest, nearly $1/3$ as long as first, third $2\frac{1}{2}$ times as long as second, fourth $1\frac{1}{2}$ times as long as third, fifth slightly shorter than fourth, fifth to ninth subequal to each other in length and shape, tenth slightly shorter than ninth, eleventh slightly longer than tenth and its apex pointed. Pronotum transverse, $1\frac{2}{3}$ times as broad as long, anterior margin nearly straight, lateral margin rounded, widest almost at $1/3$ from anterior margin, slightly narrowed anteriorly and more strongly so posteriorly, basal margin distinctly rounded posteriorly and slightly concaved before scutellum, dorsal surface smooth, shining, sparsely impressed by minute punctures, and with a distinct transverse depression. Scutellum

subtriangular, finely granulate, impunctate. Elytron with lateral margin subparallel-sided, apex rounded, surface strongly and rather closely punctate and their interstices smooth, shining.

Length : 6.0-7.5 mm.

Holotype (BISHOP) : VIETNAM : Dalat, 1,500 m, 29. iv.-4. v. 1960, S. Quate. Paratopotypes : 3 exs., same data as the holotype (BISHOP, KIMOTO). Paratypes : LAOS : Houei Kong, 1 ex., 7. x. 1965, Native collr (BISHOP). VIETNAM : Dalat, 6 km S., 1,400-1,500 m, 5 exs., 9. vi.-7. vii. 1961, N. R. Spencer; Mt. Lang Bian, 1,500-2,000 m, 2 exs., 19. v.-8. vi. 1961, N. R. Spencer (BISHOP).

This new species closely resembles *Mimastra soreli* Baly, but differs in having the third antennal segment longer and more than twice as long as the second, and the fourth 1 1/2 times as long as the third.

Mimastra pygidialis Laboissière Fig. 23c

Mimastra pygidialis Lab., 1929, Ann. Soc. Ent. France, 98 : 285, fig. 14 (Tonkin : Hoa-binh, Chapa ; HAMBURG).-Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B : 540 (Vietnam).

Distribution : Vietnam.

No additional material was examined beside the type series.

Mimastra scutellata Jacoby Fig. 23a

Mimastra scutellata Jac., 1904, Ann. Soc. Ent. Belg., 48 : 395 (India ; BM).-Maulik, 1936, Fauna India, Galeruc. : 537 (India, Burma).-Kimoto, 1982, Ent. Rev. Japan, 37 : 12, fig. (India, Burma).

Distribution : India, Burma, Thailand, Laos.

Material examined. THAILAND : Chiang Mai Prov., Maesa, 1 ex., 16. vi. 1965, P. D. Ashlock (BISHOP). LAOS : Xieng Kyouang Prov., Ban Sam Thang, 16 exs., 5. vi. 1965, Native collr ; Sedone Prov., Pakse, 1 ex., 14. v. 1965, P. D. Ashlock (BISHOP).

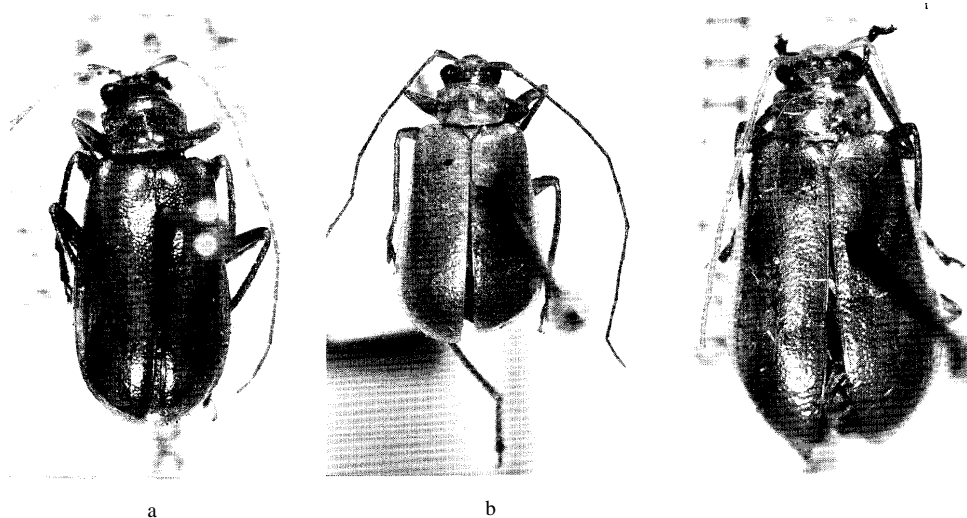


Fig. 24. a, *Mimastra apicalis* n. sp. ; b, *M. persimilis* n. sp. ; c, *M. pectoralis* n. sp.

Mimastra soreli Baly

Mimastra soreli Baly, 1878, Ann. Mag. Nat. Hist., ser. 5, 2 : 414 (Upper Yangtze Kiang ; BM).
—Ogloblin, 1936, Fauna USSR, 26, 1 : 178, 400 (China).-Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B : 541 (China, Vietnam).

Mimastra latimanus Allard, 1889, Ann. Soc. Ent. France, ser. 6, 9 : 308 (Annam ; PARIS). New synonym.

Distribution : Thailand, Laos, Vietnam, S. China, Hainan.

Material examined. THAILAND : Chiangmai Prov., Chiangdao, 450 m, 1 ex., 5-11. iv. 1958, T. C. Maa ; Khao Yai, 1 ex., 10. iv. 1963, Native collr (BISHOP) ; Chiangdao, 1 ex., 23. iv. 1973, Y. Yoshiyasu (KU). LAOS : Vientiane Prov., Phou Kou Khouei, 1 ex., 10. iv. 1965, J. A. Rondon, 1 ex., 29. iii. 1966, 1 ex., 31. v. 1966, Native collr ; Vientiane Prov., Ban Van Eue, 1 ex., 29. iv. 1966, 1 ex., 30. viii. 1967, Native collr ; Khammouane Prov., Phon Tiou, 1 ex., 10. iv. 1965, 9 exs., 28. iv. 1965, 44 exs., 30. iv. 1965, Native collr ; Borikhane Prov., Pakkading, 3 exs., 22. iii. 1965, Native collr ; Tonpheng, 3 exs., 30. iv. 1966, 2 exs., 15. v. 1966, Native collr (BISHOP) ; Umgeb. Vientiane, 237 exs., iii-vi. 1963 ; Umgeb. Vanky, 2 exs., 1963 ; Umgeb. Paklay, 1 ex., 1963 (MUNCHEN). VIETNAM : Dalat, 1,500 m, 36 exs., 29. iv.-4. v. 1960, S. Quate & L. Quate ; Dalat, 6 km S., 1,400-1,500 m, 5 exs., 9. vi.-7. vii. 1961, N. R. Spencer ; 18 km NW of Dalat, 1,300 m, 1 ex., 4-5. v. 1960, L. W. Quate ; Dilinh (Djiring), 920-1,200 m, 60 exs., 22-28. iv. 1960, S. Quate & L. Quate ; 17 exs., 9 km S. of Dilinh (Djiring), 1 ex., 24. iv. 1960, R. E. Leech ; 30 km NE of Dilinh, 1 ex., 26. iv. 1960, S. Quate ; Pleiku, 700 m, 1 ex., 8-14. v. 1960, L. W. Quate ; Mt. Lang Bian, 1,500-2,000 m, 2 exs., 19. v.-8. vi. 1961, N. R. Spencer ; Inl, N. Quang Tri, 1 ex., 14. i. 1970, A. R. Gillogly (BISHOP).

Mimastra unicitarsis Laboissière Fig. 22b

Mimastra unicitarsis Lab., 1940, Bull. Mus. Hist. Nat. Belg., 16(37) : 4, figs. (Burma).-Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B : 542, figs. (China).-Kimoto, 1970, Khumbu Himal, 3(3) : 415 (Nepal).-Kimoto & Takizawa, 1972, Kontyû, Tokyo, 40(4) : 218 (Nepal).-Kimoto, 1979, Ent. Basiliensia, 4 : 472 (Nepal, U. P.).

Distribution : India, Nepal, Bhutan, Burma, Thailand, Laos, S. China.

This species closely resembles *Mimastra cyanura* (Hope), and is clearly separable only on the male specimen. Among the vast number of specimens taken from Thailand and Laos, I could not find any male specimen of cyanura. I could not trace the type location of this species. However, this species is able to clearly identify from Laboissière's illustration.

Material examined. THAILAND : Loe, 4,200 ft., 8 exs., 16. ii. 1941, 1 ex., 25. iv. 1959 ; Bangkok, 2 exs., 17. v. 1952 (BANGKHEN). LAOS : Vientiane Prov., Ban Van Eue, 56 exs., 11-15. iv. 1965, J. L. Gressitt, 1 ex., 1-15. v. 1965, J. A. Rondon, 18 exs., 15-31. iv. 1965, 8 exs., 15-31. v. 1965, 12 exs., 16. iii. 1966, 11 exs., 29. iv. 1966, 8 exs., 15. vi. 1966, Native collr ; Vientiane Prov., Phou Kou Khouei, 32 exs., 10. iv. 1965, 40 exs., 12-13. iv. 1965, J. L. Gressitt ; Xieng Kyouan Prov., Ban Sam Thang, 15 exs., 5. vi. 1965, Native collr ; Sayaboury, 2 exs., 15-16. iv. 1965, J. L. Gressitt ; Uekiang, nr. Pakkading, 100 m, 1 ex., 22. iv. 1965, J. L. Gressitt (BISHOP) ; Umgeb. Vanky, 3 exs., 1963 ; Umgeb. Vientiane, 6 exs., 1963, iii-vi, 1963 ; Umgeb. Pakse, 7 exs., 1963 (MUNCHEN).

Genus Cneorane Baly

Cneorane Baly, 1865, Ent. Monthly Mag., 2 : 97 (type : *Cneorane fulvicollis* Baly = *Galleruca rubricollis* Hope ; India).-Chapuis, 1875, Gen. Col., 11 : 178, 179.—Maulik, 1936, Fauna India,

KEY TO SPECIES OF *Cneorane*

- | | | |
|------|---|------------------------|
| 1 | Abdomen bluish or blackish | 2 |
| | Abdomen entirely yellowish brown ; generally reddish brown with elytron greenish to blackish blue ; antenna pitchy black with basal two or three and apical segments brownish ; in male preapical segments of antenna widened ; length 7.3-7.8 mm | <i>subcoerulescens</i> |
| 2(1) | Rather large in size ; larger than 5.5 mm | 3 |
| | Rather small in size ; head and thorax reddish brown ; elytron blackish blue ; abdomen and legs infuscated, except femora of anterior and middle legs reddish ; length 4.5—5.0 mm | <i>rufocerulea</i> |
| 3(2) | Elytron with distinct transverse furrow subbasally ; interstices of elytral punctures narrower than diameter of each puncture | 4 |
| | Elytron without distinct transverse furrow subbasally ; interstices of elytral punctures wider than diameter of each puncture | 6 |
| 4(3) | Metathorax blackish ; generally bluish to violaceous black ; head, prothorax and femora of anterior and middle legs yellowish brown | 5 |
| | Metathorax and legs entirely yellowish brown ; generally yellowish brown, elytron greenish blue ; abdomen pitchy black ; length 8.6 mm | <i>siamensis</i> |
| 5(4) | Antenna entirely brownish ; elytron with punctures finer ; length 8.0 mm | <i>fulvicornis</i> |
| | Antenna blackish ; elytron with punctures stronger ; length 6.8-8.0 mm | <i>crassicornis</i> |
| 6(3) | Head, pro- and mesothorax reddish brown ; elytron blackish or bluish ; legs, metathorax and abdomen bluish or blackish blue, except anterior and middle femora reddish | 7 |
| | Head and thorax reddish brown with middle of mesothorax bluish black ; abdomen bluish black ; legs yellowish brown, tarsi and apical portion of tibiae infuscate ; in male preapical segments widened ; length 8.0-8.6 mm | <i>rubricollis</i> |
| 7(6) | Interstices of elytral punctures without irregular convexities ; length 8.5-9.0 mm | <i>femoralis</i> |
| | Interstices of elytral punctures convex and irregularly rugose ; length 11.0 mm | <i>cariosibennis</i> |

Cneorane cariosipennis Fairm., 1888, Ann. Soc. Ent. Belg., 82 : 45 (Yunnan ; PARIS).-Ogloblin, 1936, Fauna USSR, 26, 1: 217 (China).-Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B : 549 (China).

As suggested by Gressitt & Kimoto (1963, Pac. Ins. Mon., 1B:551), this species closely resembles *Cneorane nigripennis* Laboissière (1922, Bull. Soc. Ent. France, 1922 : 102 ; Yunnan). According to the study on the type of *nigripennis* preserved in Humburg Museum, the latter slightly differs in having the body length slightly shorter (about 9.0 mm).

Material examined. THAILAND: Chiangmai Prov., Chiangmai, 1,100-1,500 m, 4 exs., 11. iv. 1966. J. Sedlacek (BISHOP) ; Chiangmai Prov., Doi Pui, 1,300 m, 1 ex., 17. vi. 1965. K. Morimoto (KU).

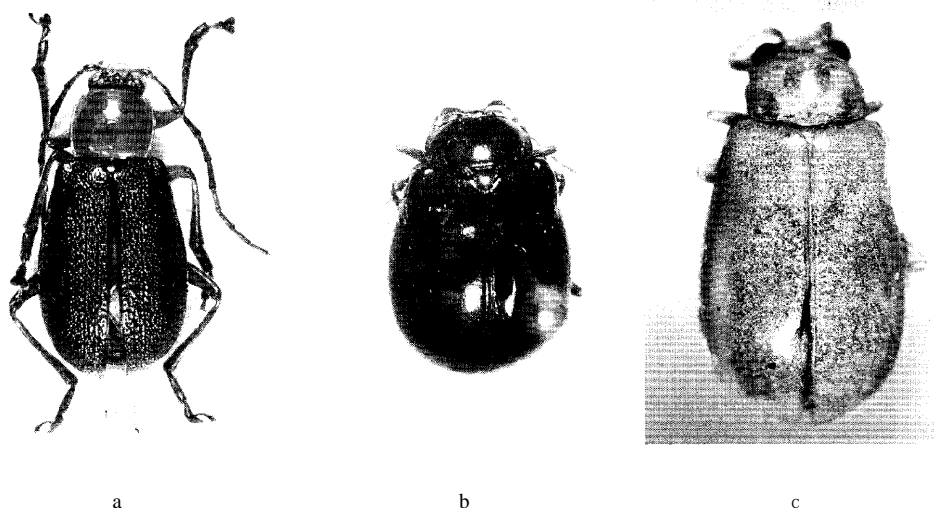


Fig. 25. a, *Cneorane cariosipennis* Fairmaire ; b, *Cneorella laosensis* n. sp. ; c, *Bangprella fulva* n. sp.

Cneorane crassicornis Fairmaire

Cneorane crassicornis Fairm., 1889, Ann. Soc. Ent. France, ser. 6, 9 : 81 (China : Kouï-Tcheou ; PARIS).-Baly, 1890, Ent. Monthly Mag., ser. 2, 1 : 14 (= *fulvicollis*).—Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B : 549 (Yunnan).

Distribution : Thailand, Vietnam, China.

Material examined. THAILAND : Chiangmai Prov., Doi Pui, 1,300 m, 1 ex., 17. vi. 1965, K. Morimoto (KU). VIETNAM : 18 km NW of Dalat, 1,300 m, 1 ex., 4-5. v. 1960, L. W. Quate ; Mt. Lang Bian, 1,500 m-2000 m, 1 ex., 19. v.-8. vi. 1961, N. R. Spencer (BISHOP).

Cneorane femoralis Jacoby Fig. 2c

Cneorane femoralis Jac., 1888, Proc.Zool.Soc. London, 1888 : 350 (Foochan ; BM).—Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B : 549 (China, Hainan).—Kimoto, 1965, Ann. Naturhist. Mus. Wien, 68 : 488 (Taiwan).

Cneorane delatouchei Fairmaire, 1888, Ann. Soc. Ent. France, 32 : 45 (Fokien ; PARIS).—Jacoby, 1890, Entomolog., 23 : 193 (= *femoralis*).

Cneorane formosana Weise, 1922, Tijdschr. Ent. 65 : 72 (Formosa).—Chôjô, 1962, Phil. J. Sci., 91(1-2) : 204 (Formosa).—Kimoto, 1965, Ann. Naturhist. Mus. Wien, 68 : 488 (= *femoralis*).

Distribution : Laos, China, Hainan, Taiwan.

Material examined. LAOS : Vientiane Prov., Ban Van Eue, 1 ex., 15. xii. 1966, Native collr ; Vientiane Prov., Gi Sion Vill., de Tha Ngone, 1 ex., 10-24. x. 1965, Native collr ; Borikhane Prov., Pakkading, 6 exs., 15. ix. 1965, light trap, J. L. Gressitt, 8 exs., 9. ix. 1965, 10 exs., 15. ix. 1965, Native collr ; Wapikhamthong Prov., Khong Sedone, Wapi, 1 ex., 15. vii. 1967, Native collr (BISHOP).

Cneorane fulvicornis Jacoby

Cneorane fulvicornis Jac., 1889, Ann. Mus. Civ. Genova, 27 : 209 (Burma ; GENOVA).—Maulik,

1936, Fauna India, Galeruc. : 344 (Burma).

Distribution : Burma, Vietnam.

Material examined. VIETNAM : 17 km S. of Dilinh, 1,300 m, 1 ex., 6-12. x. 1960, C. M. Yoshimoto ; Fyan, 900 m, 1 ex., 11. vii.-9. viii. 1961, N. R. Spencer (BISHOP).

Cneorane rubricollis (Hope)

Galleruca rubricollis Hope, 1831, in Gray, Zool. Miscell. : 29 (Nepal ; BM).

Cneorane fulvicollis Baly, 1865, Ent. Monthly Mag., 2 : 97 (India ; BM).- Jacoby, 1888, Proc. Zool. Soc. London, 1888 : 350 (notes).

Cneorane rubicollis : Maulik, 1936, Fauna India, Galeruc. : 338 (India, Nepal).

Distribution : India, Nepal, Thailand, Laos.

Material examined. THAILAND: Chiangmai Prov., Doi Pui, 1,300 m, 1 ex., 17. vi. 1965, K. Morimoto (KU). LAOS : Attopeu Prov., Houei Kong, 1 ex., 26. vi. 1965, Native collr (BISHOP).

Cneorane rufocoerulea Fairmaire

Cneorane rufocoerulea Fairm., 1888, Ann. Soc. Ent. France, 57 : 374 (Tonkin).- Jacoby, 1890, Entomolog., 23 : 167 (mentioned).- Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B : 551 (Vietnam).

Distribution : Vietnam.

I could not trace the type location of this species. No material was examined.

Cneorane siamensis Laboissière

Cneorane siamensis Lab., 1929, Rev. Chil. Hist. Nat., 33 : 293 (Siam ; BM).

Distribution : Thailand.

Material examined. THAILAND : Chiangmai Prov., Doi Suthep, 1,000 m, 1 ex., 18. vi. 1965, K. Morimoto (KU).

Cneorane subcoerulescens Fairmaire

Cneorane subcoerulescens Fairm., 1888, Ann. Soc. Ent. Belg., 32 : 44 (Yunnan).- Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B : 552 (China).

Distribution : Laos, Vietnam, China.

I could not trace the type location of this species.

Material examined. LAOS : Sedone Prov., Pakse, 1 ex., 31. v. 1965, Native collr ; Sedone Prov., Paksong, 1 ex., 17. v. 1965, P. D. Ashlock (BISHOP) ; Umgeb. Vientiane, 4 exs., iii-vi. 1963 (MUN-CHEN). VIETNAM : Mt. Lang Bian, 1,500-2,000 m, 1 ex., 19. v.-8. vi. 1961, N. R. Spencer (BISHOP).

Genus **Cneorella** Medvedev & Dang Dap

Cneorella Medvedev & Dang Dap, 1981, Rev. d'Ent. l'URSS, 60(3) : 629 (type : *Cneorella chapaensis* Medvedev & Dang Dap ; Vietnam).

KEY TO SPECIES OF *Cneorella*

- 1 Elytron without any trace of subbasal transverse furrow 2

- Elytron with deep or shallow subbasal transverse furrow 3
- 2(1) Interstices of elytral punctures shagreened ; generally greenish blue, abdomen yellowish brown ; length 4.8-5.2 mm *suisapana*
 Interstices of elytral punctures smooth ; generally blue to purplish, abdomen yellowish brown ; length 4.3-5.4 mm (Gressitt & Kimoto, 1963 ; China, Taiwan ; *Calomicrus* , **new combination**) *spuria**
- 3(1) Elytral punctures stronger 4
 Elytral punctures finer, subbasal transverse furrow very deep ; generally bluish black, abdomen yellowish brown ; length 6.8-7.2 mm *laosensis*
- 4(3) In male aedeagus without sharp asymmetrical carina on lower side 2
 In male aedeagus with sharp asymmetrical carina on lower side ; generally blue, ventral surfaces of thorax and legs blackish, abdomen yellowish ; length 7.2 mm ***vietnamica***
- 4(3) Elytron dark green with violaceous blue basally and laterally ; generally violaceous blue, ventral surfaces and legs nearly black ; elytron with apical angle square or slightly pointed ; in male median lobe of fifth abdominal segment with large, deep depression ; length 6.2-7.0 mm *chapaensis*
 Dorsal surfaces blue ; ventral surfaces, antenna and legs black ; elytron with apical angle broadly rounded ; in male median lobe of fifth abdominal segment with shallow, ill-defined depression ; length 5.4-7.0 mm *cyanea*

***Cneorella chapaensis* Medvedev & Dang Dap**

Cneorella chapaensis Medvedev & Dang Dap, 1981, Rev. d'Ent. l'URSS, 60(3) : 630 (Vietnam),

Distribution : Vietnam.

Material examined. VIETNAM : Fyan, 900-1,200 m, 7 exs., 11. vii.-9. viii. 1961, N. R. Spencer ; Dalat, 1,500 m, 1 ex., 29. iv.-4. v. 1960, S. Quate, 1 ex., 26-27. ix. 1960, C. M. Yoshimoto ; Dalat, 6 km S., 1,400-1,500 m, 1 ex., 9. vi.-7. vii. 1961, N. R. Spencer ; Blao (Balao), 1 ex., 14-21. x. 1960, C. M. Yoshimoto (BISHOP).

***Cneorella cyanea* Medvedev & Dang Dap**

Cneorella cyanea Medvedev & Dang Dap, 1981, Rev. d'Ent. l'URSS, 60(3) : 631 (Vietnam).

Distribution : Laos, Vietnam.

Material examined. LAOS : Vientiane Prov., Ban Van Eue, 6 exs., 13-14. iv. 1965, J. L. Gressitt, 2 exs., 15-31. v. 1965, 1 ex., 31. vii. 1965, 2 exs., 30. xi. 1965, 1 ex., 31. xii. 1968, Native collr ; Vientiane Prov., Gi Sion Vill., de Tha Ngone, 3 exs., 10-24. x. 1965, Native collr ; Sayaboury Prov., Sayaboury, 1 ex., 16. iv. 1965, J. L. Gressitt, 1 ex., 29. iii. 1966, Native collr (BISHOP) ; Umgeb. Vientiane, 1 ex., iii-vi. 1963 (MUNCHEN).

***Cneorella laosensis* n. sp. Fig. 25b**

Generally bluish black, antenna with four of five apical segments reddish brown, abdomen entirely yellowish brown.

Head with vertex smooth, shining, sparsely impressed by fine punctures, interocular space distinctly wider than transverse diameter of single oculus, and interocular transverse impression distinct, frontal tubercle subtriangular, contiguous, distinctly raised, surface smooth, shining. Antenna slender, nearly 3/4 as long as body length; first segment robust, club-shaped, second

shortest, nearly half as long as first, third $1 \frac{2}{3}$ times as long as second, fourth to ninth subequal to each other in length and shape, tenth slightly shorter than ninth, eleventh $1 \frac{1}{3}$ times as long as tenth and its apex pointed. Pronotum transverse, nearly twice as broad as long, anterior margin distinctly rounded posteriorly, lateral margin distinctly rounded, widest almost at middle, slightly narrowed anteriorly and posteriorly, basal margin distinctly rounded posteriorly, dorsal surface convex side to side, sparsely impressed by fine punctures, and interstices of punctures smooth, shining. Scutellum subtriangular, smooth, shining, impunctate. Elytron convex, with lateral margin rounded, surface closely impressed by fine punctures, interstices of punctures smooth, shining, and with a subbasal transverse furrow very deep.

Length : 6.8-7.2 mm.

Holotype (BISHOP) : LAOS : Ban Van Eue, 20 km E. of Phou-kow-kuei, 15-31. iv. 1965, Native collr. Paratopotypes: 14 exs., same data as the holotype (BISHOP, KIMOTO).

This new species resembles *Cneorella chapaensis* (Gressitt & Kimoto), but differs in having elytron with a subbasal transverse furrow deeper and elytron with the punctures much strongly and closely impressed.

***Cneorella suisapana* (Gressitt & Kimoto), new combination** Fig. 4b

Calomicrus suisapanus Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B: 577 (W. China : W. Hupeh, CAS).

Distribution : Thailand, China.

Material examined. THAILAND : Chiangmai Prov., Doi Suthep, 1,000 m, 1 ex., 18. vi. 1965, Y. Miyatake (KU).

***Cneorella vietnamica* Medvedev & Dang Dap**

Cneorella vietnamica Medvedev & Dang Dap, 1981, Rev. d'Ent.l'URSS, 60(3) : 632 (Vietnam).

Distribution : Vietnam.

No material was examined.

Genus ***Bangprella*** n. gen.

Antennal insertions widely separated by frons; labrum bilobed apically ; gena very narrow ; antenna with third segment distinctly longer than second ; prothorax convex side to side, without any distinct depression dorsally, and with lateral margin distinctly marginate, and basal margin not marginate except near side ; elytron with punctures irregularly impressed, without distinct subbasal furrow, epipleuron wide at base and gradually narrowed to apex ; prosternal process not elevated between anterior coxae ; anterior coxal cavity open posteriorly ; middle and posterior tibiae each with a distinct spine apically ; tarsal claws appendiculate and first tarsal segment of posterior leg subequal to length of second and third segments combined.

Type species : *Bangprella fulva* Kimoto.

This genus somewhat resembles *Kanarella* Jacoby, but differs in having the middle and the posterior tibiae spined apically and pronotum much wider than long.

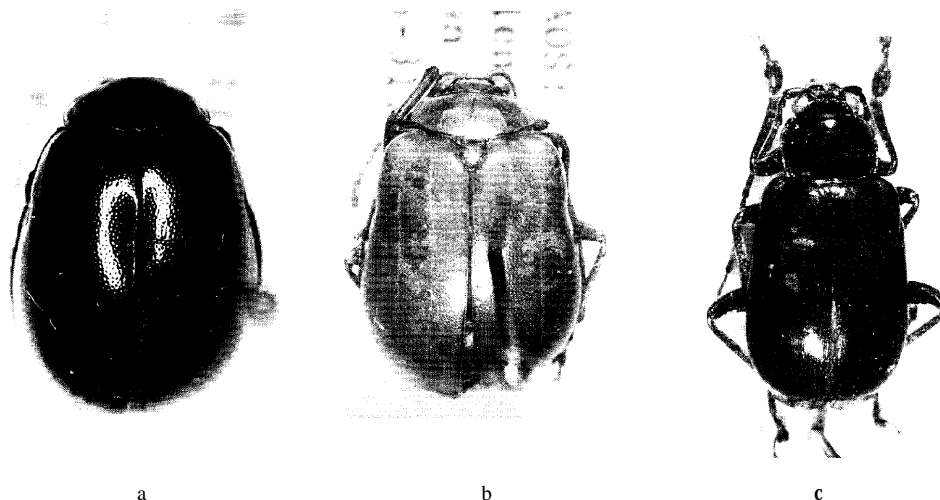


Fig. 26. a, *Morphosphaera collaris* Laboissière ; b, *Miltina dilatata* Chapuis ; c, *Parexosoma flaviventre* (Baly).

Bangprella fulva n. sp. Fig. 25c

Generally yellowish brown, first to fourth abdominal segments reddish brown.

Head with vertex somewhat wrinkled, sparsely impressed by minute punctures, interocular space distinctly wider than transverse diameter of single oculus, and interocular transverse impression distinct, frontal tubercle subtriangular, contiguous, distinctly raised, surface smooth, shining. Antenna slender, nearly $2/3$ as long as body length ; first segment long, robust, somewhat club-shaped, second shortest, nearly $2/5$ as long as first, third twice as long as second, fourth $2/3$ as long as third, fifth subequal to fourth but wider, sixth subequal to fifth in length but much wider, and as long as wide apically, seventh nearly twice as long as sixth but widened, slightly longer than wide and with a small projection externally, eighth slightly shorter than seventh, widest at middle, slightly longer than wide, ninth elongate, twice as long as wide, subequal to eighth in length, tenth subequal to ninth in length and shape, eleventh $1\frac{1}{2}$ times as long as tenth and its apex pointed. Pronotum transverse, $1\frac{2}{3}$ times as broad as long, anterior margin nearly straight, lateral margin distinctly rounded, widest almost at middle, slightly narrowed anteriorly and posteriorly, basal margin distinctly rounded posteriorly and slightly produced before scutellum, anterior corner thickened, slightly produced laterally, and posterior corner angulate, each with a setigerous pore, dorsal surface convex side to side, sparsely impressed by fine punctures, and interstices of punctures somewhat wrinkled. Scutellum subtriangular, smooth, shining, impunctate. Elytron with lateral margin rounded, surface distinctly and rather closely punctate, and interstices of punctures smooth, shining.

Male : Antenna deformed. **Female** : Unknown.

Length: 4.8-5.7 mm.

Holotype (BISHOP) : THAILAND : Bangpra, 25 m, 23. xi. 1957, J. L. Gressitt. Paratopotypes : 3 exs., same data as the holotype (BISHOP, KIMOTO). Paratype : THAILAND : Pakchong, 100 m, NE of Bangkok, 1 ex., 2. xii. 1957, J. L. Gressitt (BISHOP).

This new species somewhat resembles *Kanarella unicolor* Jacoby, but differs in having the middle and the posterior tibiae spined and pronotum much wider.

Genus **Morphosphaera** Baly

Morphosphaera Baly, 1861, J. Ent., 1(4) : 298 (type : *Chrysomela japonica* Hornstedt ; Japan).
 -Chapuis, 1875, Gen. Col., 11 : 161, 170.—Maulik, 1936, Fauna India, Galeruc. : 316.—Ogloblin,
 1936, Fauna USSR, 26, 1 : 230, 370, 408.—Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B : 555.

KEY TO SPECIES OF *Morphosphaera*

- 1 Pronotum with brownish with more than two pairs of blackish markings 2
 Pronotum yellowish brown with a wide longitudinal median stripe and a pair of round
 markings purple ; elytron deep violaceous blue ; generally blackish ; abdomen entire-
 ly brownish ; length 8-9 mm *collaris*
- 2(1) Pronotum with five markings 3
 Pronotum with seven markings ; dorsal surfaces generally dark brown ; head, ventral
 surfaces, antenna and legs black ; length 6.5 mm *albipennis*
- 3(2) Head with vertex entirely reddish brown with bluish luster 4
 Head generally black ; generally brownish ; elytron brownish with violaceous luster ;
 antenna black ; legs blackish with femora largely brownish ; length 6.5-7.0 mm ... *viridipennis*
- 4(3) First to fourth abdominal segments with a pair of blackish markings ; ground color of
 pronotum ochraceous ; elytron brownish with violaceous luster ; ground color of
 ventral surfaces brownish ; length 8mm *margaritacea*
 Abdominal segments without any blackish markings ; generally brownish ; antenna
 generally blackish ; legs blackish with most of femora brownish ; length 7.5 mm *coomani*

Morphosphaera albipennis Allard

Morphosphaera albipennis All., 1889, Ann. Soc. Ent. France, 58 : 309 (Cambodia ; HAMBURG) ;
 1889, C. R. Soc. Ent. Belg., 33 : 67 (Cambodia).

Galerucida simplex Weise, 1922, Tijdschr. Ent., 65 : 91 (Tonkin ; STOCKHOLM). New **synonym**.
 Distribution : Thailand, Cambodia, Laos, Vietnam.

Material examined. THAILAND : "Siam", 5 exs., (BANGKEN). LAOS : Vientiane Prov., Ban
 Van Eue, 1 ex., 15-31. v. 1965, Native collr (BISHOP) ; Umgeb. Vientiane, 1 ex., iii-vi. 1963 ; Umgeb.
 Vanky, 1 ex., 1963 ; Umgeb. Pakse, 1 ex., 1964 ; Umgeb. Paklay, 1 ex., 1964 (MUNCHEN).

Morphosphaera collaris Laboissière Fig. 26a

Morphosphaera collaris Lab., 1930, Ann. Soc. Ent. France, 99 : 362 (Tonkin ; HAMBURG).
 -Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B : 557 (China, Vietnam).

Distribution : Vietnam, China.

No additional material was examined beside the type series.

Morphosphaera coomani Laboissière

Morphosphaera coomani Lab., 1930, Ann. Soc. Ent. France, 99 : 363 (Tonkin ; HAMBURG).

Distribution : Vietnam.

No additional material was examined beside the type series.

Morphosphaera margaritacea Laboissière

Morphosphaera margaritacea Lab., 1930, Ann. Soc. Ent. France, 99 : 365 (Tonkin ; HAMBURG).

Distribution : Vietnam.

Material examined. "Indo-China", 2 exs. (BASEL).

Morphosphaera viridipennis Laboissière

Morphosphaera viridipennis Lab., 1930, Ann. Soc. Ent. France, 99 : 366 (Tonkin ; HAMBURG).

Distribution : Thailand, Vietnam.

Material examined. THAILAND : Chiangmai Prov., Chiangdao, 450 m, 1 ex., 5-11. iv. 1958, J. L. Gressitt (BISHOP).

Genus **Miltina** Chapuis

Miltina Chapuis, 1875, Gen. Col., 11 : 172 (type : **Miltina dilatata** Chapuis, SE Asia ; monobasic).

-Maulik, 1936, Fauna India, Galeruc. : 313.—Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B : 560.

Miltina dilatata Chapuis Fig. 26b

Miltina dilatata Chapuis, 1875, Gen. Col., 11 : 137, pl. 125, fig. 2 (no locality cited).-Jacoby, 1884, Notes Leyd. Mus., 6 : 42 (Sumatra).-Weise, 1922, Tijdschr. Ent., 65 : 99 (Tonkin).-Maulik, 1936, Fauna India, Galeruc. : 316, figs. 92-94 (India, Tonkin, Malacca, Sumatra).-Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B : 560 (S. China, Hainan, Vietnam).

Bonesia balyi Jacoby, 1889, Ann. Mus. Civ. Genova, 27 : 206 (Burma ; GENOVA).—Maulik, 1936, Fauna India, Galeruc. : 316 (= **dilatata**).

Distribution : India, Burma, Thailand, Laos, Vietnam, China, Malaya, Sumatra.

Subspherical, convex ; antenna flattened, in male fourth to tenth each with a long projection apically ; yellowish brown ; antenna and legs blackish, in some specimens brownish in various degrees ; length 7.5-11.5 mm.

Material examined. THAILAND : Chiang Mai Prov., Doi Suthep, 1,000 m, 1 ex., 12. vi. 1965, P. D. Ashlock (BISHOP) ; Chiangmai, Doi Suthep, 1 ex., 12. vi. 1965, Y. Miyatake (KU). LAOS : Vientiane Prov., Ban Van Eue, 1 ex., 1-15. v. 1965, J. A. Rondon, 6 exs., 15-31. v. 1967, Native collr ; Vientiane Prov., Phou Kou Khouei, 1 ex., 16. v. 1966, Native collr ; Sedone Prov., Pakse, 2 exs., 15. vi. 1967, Native collr (BISHOP) ; Umgeb. Vientiane, 1 ex., iii-vi. 1963 (MUNCHEN). VIETNAM : 7 km SE of Dilinh (Djiring), 990 m, 1 ex., 2. v. 1960, R. E. Leech (BISHOP).

Genus **Parexosoma** Laboissière

Parexosoma Lab., 1933, Bull. Mus. Hist. Nat. Paris, ser. 2, 4(8) : 96'7 (type : **Makzosoma flaviventre** Baly ; N. India ; monobasic).-Ogloblin, 1936, Fauna USSR, 26, 1 : 224, 373.—Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B : 560.

Bijukta Maulik, 1936, Fauna India, Galeruc. : 321 (type : **Malacosoma flaviventre** Baly).

Parexosoma flaviventre (Baly) Fig. 26c

Malacosoma flaviventre Baly, 1878, Cist. Ent., 2 : 379 (Murree ; BM).

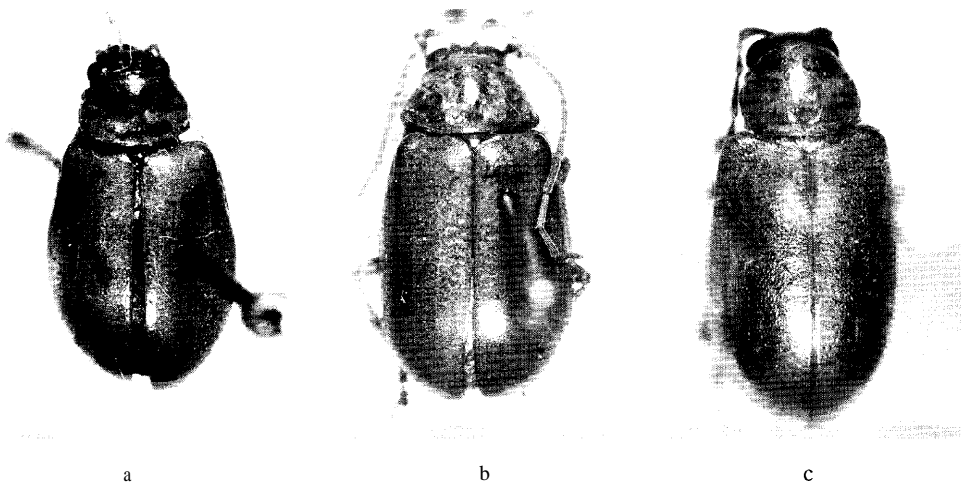


Fig. 27. a, *Luperus thailandicus* n. sp. ; b, *Calomicrus persimilis* n. sp. ; c, *C. bicolor* n. sp.

Parexosoma flaviventre: Laboissière, 1932, Bull. Mus. Hist. Nat. Paris, ser. 2, 4(8) : 967 (type of genus).—Ogloblin, 1936, Fauna USSR, 26, 1 : 225, fig. 98 (China).—Laboissière, 1940, Bull. Mus. Hist. Nat. Belg., 16(37) : 4 (Burma).—Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B : 560 (China).—Kimoto & Takizawa, 1972, Kontyû, Tokyo, 40(4) : 219 (Nepal).

Bijukta flaviventre: Maulik, 1936, Fauna India, Galeruc. : 323, fig. 96 (Punjab : Muree).

Parexosoma flaviventre var. *tonkinensis* Laboissière, 1932, Bull. Mus. Hist. Nat. Paris, ser. 2, 4(8) : 967 (Tonkin).

Distribution : N. India, Nepal, Burma, Vietnam, W. China.

Oblong, antenna filiform ; pronotum transverse, convex from side to side ; elytron with a transverse furrow subbasally, its surface rather closely and confusedly impressed by fine punctures ; in male first segment of anterior tarsus widened ; entirely bluish black ; length 7.0 mm.

No additional material was examined.

Genus *Hesperopenna* Medvedev & Dang Dap

Hesperopenna Medvedev & Dang Dap, 1981, Rev. d'Ent. l'USSR, 60(3) : 634 (type : *Hesperopenna flava* Medvedev & Dang Dap ; Vietnam).

***Hesperopenna flava* Medvedev & Dang Dap**

Hesperopenna flava Medvedev & Dang Dap, 1981, Rev. d'Ent. l'USSR, 60(3) : 634 (Vietnam).

Distribution : Vietnam.

Body elongate-oval, more tapered forward. Body unicolorous yellow, apical half of elytron, except marginally, usually brighter and paler. Length 7.5-8.5 mm (after Ent. Rev. : 113).

No material was examined.

Genus **Luperus** Müller

Luperus Müller, 1764, Fauna Insect. Fridrichsdalina :13.—Chapuis, 1875, Gen. Col., 9 : 186. —Ogloblin, 1936, Fauna USSR, 26, 1 : 243, 278, 415.—Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B : 395, 561.—Kimoto, 1965, J. Fac. Agr. Kyushu Univ., 13(3):378.—Silfverberg, 1979, Bull. Zool. Nomencl., 36(3): 161 (requested to have *Chrysomela flavipes* Linnaeus, 1767, designated as type).

***Luperus thailandicus* n. sp.** Fig. 27a

Generally yellowish brown, head pitchy black with frontal tubercle reddish brown, scutellum pitchy black, meso- and metathorax pitchy brown.

Head with vertex somewhat granulate, sparsely impressed by minute punctures, interocular space distinctly wider than transverse diameter of single oculus, and interocular transverse impression distinct, frontal tubercle transverse, subtriangular, contiguous, and distinctly raised, surface smooth, shining. Antenna slender, nearly $3/4$ as long as body length ; first segment long, club-shaped, second shortest, nearly $1/5$ as long as first, third $2\frac{1}{2}$ times as long as second, fourth $1\frac{2}{3}$ times as long as third, fourth to ninth subequal to each other in length and shape, tenth slightly shorter than ninth, eleventh subequal to tenth in length but its apex pointed. Pronotum transverse, $1\frac{2}{3}$ times as broad as long, anterior margin slightly rounded anteriorly, lateral margin distinctly rounded, widest almost at middle, distinctly narrowed anteriorly and posteriorly, basal margin distinctly rounded posteriorly, dorsal surface convex, with a pair of lateral transverse furrow starting from slightly behind anterior corner, sparsely impressed by distinct punctures, and interstices of punctures smooth, shining. Scutellum subtriangular, convex, smooth, shining, impunctate. Elytron with lateral margin rounded, surface more distinctly and closely punctate than pronotum and interstices of punctures smooth, shining.

Length: 7.5 mm.

Holotype (BISHOP) : THAILAND : Chiangmai Prov., Doi Suthep, 1-5. iv. 1958, T. C. Maa. Paratopotype : 1 ex., same data as the holotype (KIMOTO). Paratype : THAILAND : Chiangmai, 1,200 m, 1 ex., 11. iv. 1966, J. Sedlacek (BISHOP).

This new species somewhat resembles *Luperus iniquus* (Weise), from China, but differs in having pronotum much wider and the general coloration yellowish brown.

Genus **Calomicrus** Stephens

Calomicrus Step., 1834, Brit. Ent. Mandb., 4 : 293 (type : *Crioceris circumfusus* Marsh; monobasic ; Europe).—Ogloblin, 1936, Fauna USSR, 26, 1 : 252.—Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B: 568.

KEY TO SPECIES OF *Calomicrus*

- | | | |
|------|---|----------------|
| 1 | Generally brownish | 2 |
| | Generally bluish black with abdomen yellowish brown ; length 4.3-4.9 mm | <i>coomani</i> |
| 2(1) | Antenna entirely yellowish brown, dorsal surfaces entirely yellowish to reddish brown | 3 |
| | Antenna generally pitchy brown to black ; pronotum reddish brown and elytron yellowish brown ; pronotum nearly $1\frac{1}{3}$ times as wide as long ; generally yellowish | |

- brown, head pitchy brown, legs with tibiae and tarsi somewhat infusate; length 5.7-6.3 mm *bicolor*
- 3(2) Pronotum less transverse, nearly $1\frac{1}{2}$ times as wide as long and widest slightly before middle; generally yellowish to reddish brown; length 6X-6.9 mm *persimilis*
- Pronotum transverse, nearly $1\frac{2}{3}$ times as wide as long and widest slightly behind middle; generally yellowish brown, in some specimen tibiae and tarsi dark brown to pitchy black; length 4.8-6.0 mm *flavus*

***Calomicrus bicolor* n. sp.** Fig. 27c

Generally yellowish brown, head pitchy brown, pronotum reddish brown, antenna pitchy brown to black with basal two or three segments reddish brown, legs yellowish brown with tibiae and tarsi somewhat infusate.

Head with vertex finely wrinkled, sparsely impressed by minute punctures, interocular space distinctly wider than transverse diameter of single oculus, and interocular transverse impression distinct, and with several large punctures along this impression; frontal tubercle subtriangular, contiguous, distinctly raised, surface smooth, shining. Antenna slender, nearly as long as body length; first segment long, second shortest, nearly $\frac{1}{3}$ as long as first, third $1\frac{1}{2}$ times as long as second, fourth twice as long as third, fourth to seventh subequal to each other in length and shape, eighth slightly shorter than seventh, ninth subequal to eighth in length and shape, tenth slightly shorter than ninth, eleventh subequal to ninth in length but its apex pointed. Pronotum transverse, $1\frac{1}{3}$ times as broad as long, anterior margin slightly rounded anteriorly, lateral margin distinctly rounded, widest almost at middle, slightly narrowed anteriorly and posteriorly, basal margin distinctly rounded posteriorly, dorsal surface convex, with a pair of lateral transverse furrows starting from anterior corner, rather closely impressed by distinct punctures, and interstices of punctures smooth, shining. Scutellum subtriangular, smooth, shining, impunctate. Elytron with lateral margin rounded, surface more distinctly and closely punctate, and interstices of punctures smooth, shining.

Length: 5.7-6.3 mm.

Holotype (BISHOP): LAOS: Sayaboury Prov., Sayaboury, 15. iv. 1965, J. L. Gressitt. Paratopotypes: 12 exs., same data as the holotype (BISHOP, KIMOTO). Paratype: LAOS: Vientiane Prov., Phou-kow-kuei, 1 ex., 14. iv. 1965, J. L. Gressitt (BISHOP).

This new species resembles *Calomicrus flavus* (Jacoby), but differs in having antenna generally pitchy brown, pronotum reddish brown and elytron yellowish brown.

***Calomicrus coomani* Gressitt & Kimoto** Fig. 28a

Calomicrus coomani Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B: 569, fig. (Tonkin: Hoa-Binh; FREY).-Kimoto, 1966, Esakia, Kyushu Univ., 5: 31 (Taiwan).

Distribution: Thailand, Laos, Vietnam, Taiwan.

Material examined. THAILAND: Trang Prov., Khaophappa, Khaochang, '200 m, 1 ex., 1-3. i. 1964, light trap, G. A. Samuelson; Phu Kae, 1 ex., 15. v. 1963, Native collr (BISHOP); Khao Chong, nr. Trung, Y. Miyatake leg. (KU). LAOS: Ban Van Eue, Vientiane Prov., 1 ex., 15-31. v. 1965, Native collr; Sedone Prov., Pakse, 1 ex., 31. v. 1967, Native collr; Uekinak, nr. Pakkading, 100 m, 4 exs., 22. iv. 1965, J. L. Gressitt (BISHOP); Umgeb. Vientiane, 2 exs., iii-vi. 1963 (MUNCHEN).

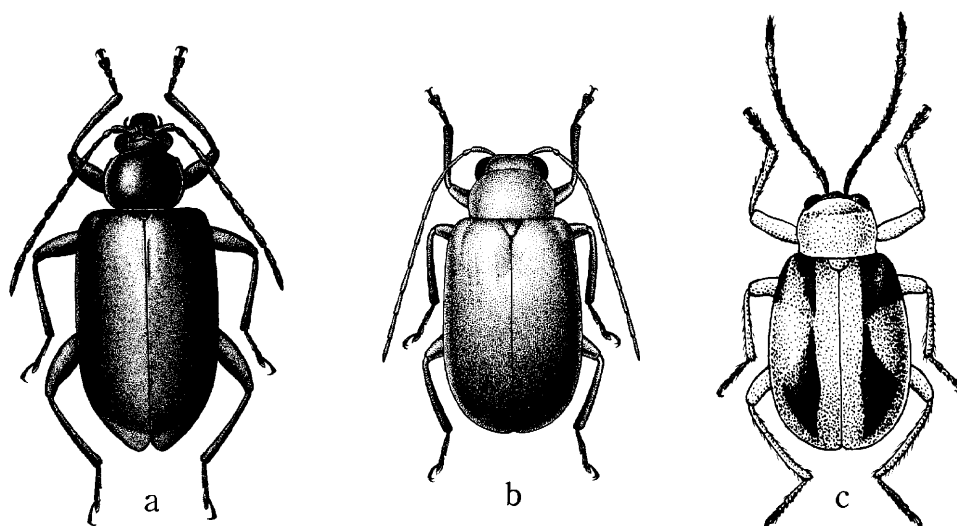


Fig. 28. a, *Calomicrus coomani* Gressitt & Kimoto ; b, *Sinoluperus subcostatus* Gressitt & Kimoto ; c, *Medythia suturalis* (Motschulsky).

***Calomicrus flavus* (Jacoby), new combination**

Agelastica ? flava Jac., 1892, Ann. Mus. Civ. Genova, 32 : 967 (Burma ; GENOVA).—Weise, 1924, Col. Cat. Junk, 78 : 131 (Burma).

Distribution : Burma, Thailand, Laos, Vietnam.

This species is not listed in Maulik, 1936, Fauna India, Galerucinae.

Material examined. THAILAND : Chiangmai Prov., Mae Sa, 2 exs., 16. vi. 1965, P. D. Ashlock (BISHOP) ; Utkaitani, 3 exs., 13. iv. 1963 (BANGKHEN) ; Chiangmai Prov., Mae Sa Water Fall, 2 exs., 16. vi. 1965, Y. Miyatake (KU). LAOS : Borikhane Prov., Pakkading, 100 m, 2 exs., 22-23. iv. 1965, J. L. Gressitt, 1 ex., 31. viii. 1965, Native collr ; Pon-horn, N. of Pakkading, 2 exs., 20. iv. 1965, J. L. Gressitt ; Vientiane Prov., Ban Van Eue, 1 ex., 11. iv. 1965, 1 ex., 15-31. v. 1965, Native collr ; Sedone Prov., 5 km E. of Pakse, 3 exs., 13. v. 1965, P. D. Ashlock (BISHOP) ; Umgeb. Vientiane, 1 ex., iii-vi. 1963 (MUNCHEN). VIETNAM : 25 km SW of Pleiku, 400 m, 1 ex., 12. v. 1960, L. W. Quate (BISHOP).

***Calomicrus persimilis* n. sp.** Fig. 27b

Entirely yellowish brown.

Head with vertex slightly wrinkled, sparsely impressed by minute punctures, interocular space distinctly wider than transverse diameter of single oculus, and interocular transverse impression distinct, frontal tubercle subtriangular and distinctly raised, surface smooth, shining. Antenna slender, slightly shorter than body length ; first segment long, second shortest, nearly $1/4$ as long as first, third $1\frac{1}{2}$ times as long as second, fourth $2\frac{2}{3}$ times as long as third, fourth to eighth subequal to each other in length and shape, ninth slightly shorter than eighth, tenth subequal to ninth in length and shape, eleventh slightly longer than ninth and subequal to eighth in length but its apex pointed. Pronotum transverse, $1\frac{1}{2}$ times as broad as long, anterior margin slightly rounded anteriorly, lateral

margin distinctly rounded, widest slightly before middle, slightly narrowed anteriorly and posteriorly, basal margin distinctly rounded posteriorly, dorsal surface convex, with a pair of lateral transverse furrow starting from anterior corner, closely impressed by fine punctures, and interstices of punctures smooth, shining. Scutellum subtriangular, smooth, shining, impunctate. Elytron with lateral margin rounded, surface distinctly and closely punctate, and interstices smooth, shining.

Length : 6.6-6.9 mm.

Holotype (BISHOP) : LAOS : Sedone Prov., Pakse, 31. v. 1965, Native collr. Paratopotypes : 3 exs., same data as the holotype (BISHOP, KIMOTO). Paratypes : LAOS : Ile de Khong, 7 exs., 17. iv. 1965, J. L. Gressitt (BISHOP). VIETNAM : 20 km N. of Pleiku, 650 m, 1 ex., 9. v. 1960, S. Quate & L. Quate ; Ban Me Thuot, 500 m, 1 ex., 16-18. v. 1960, S. Quate (BISHOP).

This new species closely resembles *Calomicrus flavus* (Jacoby), but differs in having pronotum less transverse, and the legs entirely yellowish brown.

Genus **Trichosepharia** Laboissière

Trichosepharia Lab., 1936, Ann. Soc. Ent. France, 105 : 254 (type : *Ttichosepharia pubescens* Laboissiere ; Vietnam).

Trichosepharia pubescens Laboissière Fig. 29a

Ttichosepharia pubescens Lab., 1936, Ann. Soc. Ent. France, 105 : 254 (Tonkin ; HAMBURG).

Ttichosepharia pubescens basalis Laboissiere, 1936, Ann. Soc. Ent. France, 105 : 255 (Tonkin ; HAMBURG).

Distribution : Vietnam.

Suboval ; dorsal surfaces thickly covered by fine hairs ; generally reddish brown ; elytron reddish basally and yellowish apically and with a large blackish transverse median marking, which is also extending along sutural margin towards apex ; antenna, tibiae and tarsi infusate ; length 8.0 mm.

No additional material was examined beside the type series.

Genus **Sinoluperus** Gressitt & Kimoto

Sinoluperus Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B : 583 (type: *Sinoluperus subcostatus* Gressitt & Kimoto ; S. China).

Sinoluperus subcostatus Gressitt & Kimoto Fig. 28b

Sinoluperus subcostata Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B : 584, fig. (S. China, Hainan ; CAS).

Distribution : Laos, S. China, Hainan.

Suboval ; interantennal space wide ; antenna filiform ; pronotum transverse, convex from side to side ; elytron subparallel-sided, its surface closely and confusedly impressed by distinct punctures ; yellowish brown, in some specimen elytron almost entirely blackish ; length 5.2-5.5 mm.

Material examined. LAOS : Sedone Prov., 5 km of Pakse, 1 ex., 13. v. 1965, P. D. Ashlock (BISHOP).

Genus **Medythia** Jacoby

Medythia Jacoby, 1887, Notes Leyden Mus., 9 : 242 (type: *Medythia quadrimaculata* Jacoby; Sumatra ; monobasic).-Kimoto, 1981, Ent. Rev. Japan, 35 : 7.

Paraluperodes Ogloblin, 1936, Fauna USSR, 26, 1: 310, 375, 431 (type : *Cnecodes suturalis* Motschulsky ; Burma ; monobasic).-Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B:585.—Kimoto, 1965, J. Fac. Agr. Kyushu Univ., 13(3): 386.

KEY TO SPECIES OF *Medythia*

- Pronotum as broad as long, widest almost at $1/3$ from anterior margin, and strongly narrowed posteriorly ; antenna pitchy black with first and eighth to tenth segments pale brown, in some specimen tenth segment partly or entirely blackish ; generally yellowish brown with apex and basal half of tibiae blackish ; elytron with blackish stripe ; length 3.0-3.4 mm *suturalis*
- Pronotum nearly $1\frac{1}{4}$ times as broad as long, widest slightly before middle and less strongly narrowed posteriorly ; antenna pitchy brown with basal segments paler ; generally yellowish brown, elytron with broad stripe blackish ; head pitchy brown ; length 2.3—2.6 mm *siamensis*

***Medythia siamensis* n. sp.** Fig. 29b

Generally yellowish brown, head pitchy brown, elytron yellowish brown with broad longitudinal stripe black, antenna pitchy brown with basal segments generally paler.

Head with vertex somewhat wrinkled, sparsely impressed by minute punctures, interocular space slightly wider than transverse diameter of single oculus, frontal tubercle subtriangular, contiguous, distinctly raised, surface finely granulate, and delimited posteriorly by several large punctures arranged in a transverse row, clypeus impressed by large punctures, surface finely granulate. Antenna robust, in preapical segments, nearly three times as long as wide, nearly $2/3$ as long as body length ; first segment long, second shortest, nearly half as long as first, third subequal to second in length but more slenderer, fourth $1\frac{1}{2}$ times as long as third, fourth to ninth subequal to each other in length and shape, tenth slightly shorter than ninth, eleventh subequal to ninth in length but its apex pointed. Pronotum transverse, nearly $1\frac{1}{4}$ times as broad as long, anterior margin slightly rounded posteriorly, lateral margin distinctly rounded, widest slightly before middle, slightly narrowed anteriorly and posteriorly, dorsal surface convex side to side, rather closely impressed by distinct punctures, and interstices of punctures smooth, shining. Scutellum semicircular, smooth, shining, impunctate. Elytron with lateral margin rounded, surface more distinctly and closely punctate than pronotum, and interstices of punctures smooth, shining.

Length : 2.3-2.6 mm.

Holotype (BANGKHEN) : THAILAND : Bangkok, 1960, lot no. 2728. Paratopotypes : 4 exs., same data as the holotype (BANGKHEN, KIMOTO).

This new species resembles *Medythia suturalis* (Motschulsky), but differs in having the characteristic coloration of antenna, and pronotum slightly wider.

***Medythia suturalis* (Motschulsky)** Fig. 28c

Cnecodes suturalis Motsch., 1858, Etud. Ent., 7 : 100 (Burma).-Weise, 1910, Phil. J. Sci., ser. D, 5 :



Fig. 29. a, *Trichosepharia pubescens* Laboissière; b, *Medythia siamensis* n. sp.; c, *Liroetiella tibialis* n. sp.

141 (Philippines).

Luperodes suturalis : Allard, 1889, Ann. Soc. Ent. France, ser. 6, 9 : 310 (Pnom-Penh).-Weise, 1922, Tijdschr. Ent., 65 : 80 (Canton).

Monolepta suturalis : Duvivier, 1892, Ann. Soc. Ent. Belg., 36 : 444 (India).

Luperodes suturalis abb. *abbreviatus*, *vittatus* Weise, 1922, Tijdschr. Ent., 65 : 81 (locality not cited).

Paraluperodes suturalis : Ogloblin, 1936, Fauna USSR, 26, 1 : 312, 433, fig. 312 (India, S. China, Sumatra, Java, Philippines).-Chôjô, 1961, Nature and Life in SE Asia, Kyoto, 1 : 352, pl. 12, fig. 8 (Thailand) ; 1962, Phil. J. Sci., 91(1-2) : 233 (Formosa) ; 1964, Nature and Life in SE Asia, Kyoto, 3 : 298 (Thailand).-Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B : 585 (S. China, Hainan, Vietnam).-Kimoto, 1965, J. Fac. Agr. Kyushu Univ., 13(3) : 387 (Ryukyu Is.).

Medythia suturalis : Kimoto, 1981, Ent. Rev. Japan, 35 : 8 (Ryukyu Is., China, Taiwan, Hainan, Thailand, Vietnam, Malaya, Java, Celebes).

Distribution : India, Burma, Thailand, Cambodia, Laos, Vietnam, Malaya, Philippines, Hainan, S. China, Taiwan, Ryukyu Is., Sumatra, Java, Celebes.

Material examined. THAILAND : Bangkok, 50 exs., 1960 (BANGKHEN) ; Chiangmai Prov., Chiangmai, 7 exs., 11. vi. 1965, 10 exs., 17. vi. 1965, P. D. Ashlock, 3 exs., 14. xi. 1957, J. L. Gressitt ; Chiangmai Prov., Doi Aneka, 1 ex., 9. iv. 1953, T. C. Maa ; Pangmakampon (Pankampawng), nr. Fang, 450 m, 2 exs., 15-16. xi. 1957, T. C. Maa ; Pak Chong, 100 m, NE of Bangkok, 20 exs., 1-3. xii. 1957, J. L. Gressitt, 1 ex., 3. xii. 1957, T. C. Maa ; Scattahib Area, 5 exs., 24. xi. 1957, J. L. Gressitt ; Nakhon Nayok Prov., Khao Yai Nat. Park, 1 ex., 6. xi. 1965, P. D. Ashlock ; Si Racha, 1 ex., 21. xii. 1963, Native collr (BISHOP) ; Chiangmai, 8 exs., 11. vi. 1965, at light, K. Morimoto & Y. Miyatake, 1 ex., 12. viii. 1973, 4 exs., 17. viii. 1973, at light, K. Yano ; Sanpatong, 1 ex., 7. vii. 1970, soybean, K. Yano ; Khao Chong, nr. Trung, 1 ex., 24. vi. 1965, at light, Y. Miyatake (KU) ; Khon Kaen, 1 ex., 20. xii. 1979, S. Azuma ; Lom Sak, 1 ex., 2. i. 1980, S. Azuma (RU) ; Sanpatong, R. E. S., 2 exs., 25. xi. 1968, Jeraphanatha (EHIME) ; Bangsaen, 5 exs., 16-17. xi. 1968, 2 exs., 25. xii. 1968, M. Sato ; Sanpatong, 1 ex., 25. xii. 1968, M. Sato ; Nakorn Nayok, 4 exs., 24. i. 1968, K. Baba ; Khao Yai, 1 ex., 29-31. i. 1968,

K. Baba ; Saraburi, 2 exs., 28. i. 1968, K. Baba (KIMOTO). CAMBODIA : Damrey Phong, 1 ex., 14-16. iv. 1961, N. R. Spencer (BISHOP) ; Chaon, 1 ex., T. Shibata (OMNH). LAOS : Vientiane, 1 ex., 31. v.-3. vi. 1960, S. Quate & L. Quate, 4 exs., 8-9. v. 1965, P. D. Ashlock ; Vientiane Prov., Ban Van Eue, 2 exs., 30. ii. 1965, J. L. Gressitt ; Vientiane Prov., Gi Sion Vill., de Tha Ngone, 3 exs., 28. ii. 1965, 1 ex., 27. ii.-6. iii. 1966, J. L. Gressitt (BISHOP). VIETNAM : Nha Trang, 5 exs., 17-26. xi. 1960, C. M. Yoshimoto ; 22 km S. of Nha Trang, 4 exs., 20-26. xi. 1960, C. M. Yoshimoto ; 22 km S. of Nha Trang, 4 exs., 20-26. xi. 1960, C. M. Yoshimoto ; 15-35 km, NW of Phan Rang, 12 exs., 8-16. xi. 1960, C. M. Yoshimoto ; Nha Ho, 14 km N., Phan Rang, 1 ex., 15. xi. 1960, C. M. Yoshimoto ; Quang Tri, 2 km N., 4 exs., 9. iii. 1970, 1 ex., 1. iv. 1970, 14 exs., 30. iv. 1970, 6 exs., 5. v. 1970, 1 ex., 27. v. 1970, 2 exs., 11. vi. 1970, A. R. Gillogly (BISHOP).

Genus *Liroetiella* n. gen.

Antennal insertions widely separated by frons ; labrum rounded, truncate apically ; gena very narrow ; frontal tubercles contiguous ; antenna with third segment distinctly longer than second ; prothorax with lateral and posterior margins distinctly marginate, elytron with punctures irregularly impressed, without distinct subbasal furrow, epipleuron wide at base and gradually narrowed to apex ; prosternal process not elevated between anterior coxae ; anterior coxal cavity open posteriorly ; middle and posterior tibiae distinctly spined apically ; tarsal claws appendiculate and first tarsal segment of posterior legs distinctly longer than second and third segments combined.

Type species : *Liroetiella tibialis* Kimoto.

This new genus somewhat resembles *Siemssenius* Weise (= *Pseudoliroetis* Laboissière), but differs in having the middle and the posterior tibiae spined apically. Also from *Liroetis* Weise, differs in having elytral epipleuron wide in base.

KEY TO SPECIES OF *Liroetiella*

- | | | |
|------|--|----------------------|
| 1 | Thorax entirely pale | 2 |
| | Thorax entirely black ; generally yellowish brown ; head black with middle of vertex pitchy brown ; length 3.8—4.5 mm | <i>nigricollis</i> |
| 2(1) | Antenna with third segment nearly twice as long as second | 3 |
| | Antenna with third segment nearly four times as long as second ; generally yellowish brown ; length 4.5-5.7 mm | <i>antennalis</i> |
| 3(2) | Smaller ; body length 3.8—5.4 mm | 4 |
| | Larger ; generally yellowish brown, with tibiae and tarsi pitchy black ; length 8.4-10.0 mm | <i>tibialis</i> |
| 4(3) | Pronotum with surface smooth, not granulate | 5 |
| | Pronotum with surface finely granulate and distinctly punctate ; generally yellowish brown ; antenna pitchy brown with basal segments paler ; length 4.8-5.4 mm ... | <i>granulicollis</i> |
| 5(4) | Legs yellowish brown with tibiae and tarsi pitchy black ; generally reddish brown with elytron and abdomen yellowish brown, antenna pitchy black ; length 3.9-4.5 mm | <i>bicolor</i> |
| | Legs entirely brownish ; generally yellowish brown, in some specimens antenna infuscate ; length 3.8—4.5 mm | <i>minor</i> |

***Liroetiella antennalis* n. sp.** Fig. 30a

Entirely yellowish brown, in some specimens legs with middle and posterior tibiae and tarsi pitchy black.

Head with vertex somewhat wrinkled, sparsely impressed by minute punctures, interocular space subequal to transverse diameter of single oculus, and interocular transverse impression distinct, frontal tubercle subtriangular, contiguous, distinctly raised, surface finely granulate. Antenna slender, nearly as long as body length; first segment long, second shortest, nearly $1/4$ as long as first, nearly four times as long as second, fourth $1\frac{1}{2}$ times as long as third, fourth to seventh subequal to each other in length and shape, eighth slightly shorter than sixth, eighth to tenth subequal to each other in length and shape, eleventh subequal to tenth in length but its apex pointed. Pronotum transverse, $1\frac{1}{4}$ times as broad as long, anterior margin nearly straight, lateral margin feebly rounded, widest almost at middle, slightly narrowed anteriorly and posteriorly, basal margin distinctly rounded posteriorly, dorsal surface convex, with a pair of lateral transverse furrows starting from anterior corners, sparsely impressed by fine punctures, and interstices of punctures smooth, shining. Scutellum subtriangular, smooth, shining, impunctate. Elytron with lateral margin rounded, surface more distinctly and closely punctate than pronotum, and interstices of punctures smooth, shining.

Length : 4.5-5.7 mm.

Holotype (Type No. 2699, Kyushu Univ.) : THAILAND : Khao Chong, nr. Trung, 26. vi. 1965, K. Morimoto & Y. Miyatake. Paratopotypes: 8 exs., same data as the holotype (KU). Paratypes: THAILAND: Kao Chong Park, 1 ex., 1. iii. 1965, K. Yasumatsu (KU); Trang, Khaophapha, Kaochong, 1 ex., 11. i. 1964, 2 exs., 13. i. 1964, G. A. Samuelson; Chiangmai, 1,100-1,500 m, no date, 1966, J. Sedlacek (BISHOP); Slika Fall, 1 ex., 24. i. 1968, K. Baba (KIMOTO). LAOS : Ban Van Eue, 800 m, SE of Phou-kow-kuei, 3 exs., 13. iv. 1965, J. L. Gressitt, 1 ex., 15. iii. 1966, Native collr; Sayaboury Prov., Sayaboury, 1 ex., 15. iv. 1965, J. L. Gressitt (BISHOP). VIETNAM : Fyan, 900-1,000 m, 1 ex., 11. vii-9. viii. 1961, N. R. Spencer; Ban Me Thuot, 500 m, 1 ex., 16-18. v. 1960, S. Quate; 20 km N. of Pleiku, 650 m, 1 ex., 9. v. 1960, L. W. Quate; Kontum, N. of Pleiku, 550 m, 1 ex., 13. v. 1960, L. W. Quate (BISHOP).

This new species resembles *Liroetiella minor* Kimoto, but differs in having the third antennal segment nearly four times as long as the second.

***Liroetiella bicolor* n. sp.** Fig. 31a

Generally reddish brown, elytron and abdomen yellowish brown, antenna pitchy brown with first segment reddish brown, legs yellowish brown with tibiae and tarsi pitchy black.

Head with vertex finely granulate, sparsely impressed by minute punctures, interocular space subequal to transverse diameter of single oculus, and interocular transverse impression distinct, frontal tubercle subtriangular, contiguous, distinctly raised, surface finely granulate. Antenna slender, nearly as long as body length; first segment long, second shortest, nearly $1/4$ as long as first, third twice as long as second, fourth three times as long as third, fifth subequal to fourth in length and shape, sixth slightly shorter than fifth, sixth to eighth subequal to each other in length and shape, ninth slightly shorter than eighth, tenth subequal to ninth in length and shape, eleventh subequal to tenth in length but its apex pointed. Pronotum transverse, $1\frac{1}{4}$ times as broad as long, anterior margin slightly rounded anteriorly, lateral margin distinctly rounded, widest almost at middle, slightly narrowed anteriorly and posteriorly, basal margin distinctly rounded posteriorly, dorsal surface convex, with a pair of lateral transverse furrows starting from anterior corner, closely impressed by strong punctures, and interstices of punctures smooth, shining. Scutellum subtriangular, smooth,



Fig. 30. a, *Liroetiella antennalis* n. sp. ; b, *L. minor* n. sp. ; c, *L. granulicollis* n. sp.

shining, impunctate. Elytron with lateral margin rounded, surface distinctly and rather closely punctate, and interstices of punctures smooth, shining.

Length : 3.9-4.5 mm.

Holotype (BISHOP) : THAILAND : Chiangmai Prov., Chiang Dao, 5-11. iv. 1958, Native collr. Paratopotype: 1 ex., same data as the holotype (BISHOP). Paratypes: THAILAND: Chiangrai Prov., Chiang Dao, 1 ex., 15. vi. 1965, Y. Miyatake (KU) ; Chiang Dao, 1 ex., 5-11. iv. 1958, T. C. Maa (BISHOP) ; Khao Yai, 1 ex., 29-31. i. 1968, K. Baba ; Saraburi, 1 ex., 28. i. 1968, K. Baba (KIMOTO). LAOS : Ban Van Eue, 20 km E. of Phou Kow Kuei, 1 ex., 15-31. v. 1965, Native collr ; Sayaboury Prov., Sayaboury, 1 ex., 17. ii. 1965, Native collr (BISHOP).

This new species resembles *Liroetiella minor* Kimoto, but differs in having the legs yellowish brown with tibiae and tarsi pitchy black, and pronotum reddish and elytron yellowish brown.

***Liroetiella granulicollis* n. sp. Fig. 30c**

Generally yellowish brown, antenna pitchy brown with basal three segments yellowish brown.

Head with vertex finely granulate, sparsely impressed by minute punctures, interocular space distinctly wider than transverse diameter of single oculus, and interocular transverse impression deep, distinct, frontal tubercle subtriangular, contiguous, distinctly raised, surface finely granulate. Antenna slender, nearly as long as body length ; first segment long, second shortest, nearly $1/5$ as long as first, third $2\frac{1}{2}$ times as long as second, fourth three times as long as third, fifth subequal to fourth in length and shape, sixth slightly shorter than fifth, and sixth to tenth subequal to each other in length and shape, eleventh slightly shorter than tenth and its apex pointed. Pronotum transverse, $1\frac{3}{4}$ times as broad as long, anterior margin slightly rounded posteriorly, lateral margin distinctly rounded, widest almost at middle, distinctly narrowed anteriorly and posteriorly, basal margin distinctly rounded posteriorly, dorsal surface convex, with a pair of lateral transverse furrow starting from anterior corners, sparsely impressed by distinct punctures, and interstices of punctures finely granulate. Scutellum subtriangular, smooth, shining, impunctate. Elytron with lateral margin rounded, surface more distinctly and closely punctate than pronotum, and interstices of punctures granulate.

Length : 4.8-5.4 mm.

Holotype (BISHOP) : LAOS : Sayaboury Prov., Sayaboury, 16. iv. 1965, J. L. Gressitt. Paratopotype : 1 ex., same data as the holotype (KIMOTO). Paratypes : 2 exs. "Indo-China" (BASEL).

This new species resembles *Liroetiella antennalis* Kimoto, but differs in having pronotum finely granulate, and the third antennal segment nearly twice as long as the second.

***Liroetiella minor* n. sp.** Fig. 30b

Entirely yellowish brown, in some specimen head somewhat infusate.

Head with vertex smooth, shining, sparsely impressed by minute punctures, interocular space subequal to transverse diameter of single oculus, and interocular transverse impression distinct, frontal tubercle subtriangular, contiguous, distinctly raised, surface smooth, shining. Antenna slender, nearly as long as body length ; first segment long, second shortest, nearly 1/3 as long as first, third 1 1/2 times as long as second, fourth twice as long as third, fourth to seventh subequal to each other in length and shape, eighth slightly shorter than seventh, seventh to tenth subequal to each other in length and shape, eleventh subequal to tenth in length but its apex pointed. Pronotum transverse, 1 1/4 times as broad as long, anterior margin slightly rounded anteriorly, lateral margin distinctly rounded, widest almost at middle, slightly narrowed anteriorly and posteriorly, basal margin distinctly rounded posteriorly, dorsal surface convex, with a pair of lateral transverse furrows starting from anterior corners, rather closely impressed by distinct punctures, and interstices of punctures smooth, shining. Scutellum subtriangular, smooth, shining, impunctate. Elytron with lateral margin rounded, surface more distinctly and closely punctate than pronotum, and interstices of punctures smooth, shining.

Length : 3.8-4.5 mm.

This new species resembles *Liroetiella tibialis* Kimoto, but differs in being the body length shorter, and having the legs entirely brownish.

Holotype (BISHOP) : LAOS : Vientiane Prov., Ban Van Eue, 1-15. ix. 1967, Native collr. Paratopotypes : 47 exs., same data as the holotype (BISHOP). Paratypes : THAILAND : Fang, 5 exs., 13-14. vi. 1965, K. Morimoto & Y. Miyatake (KU). LAOS : Vientiane Prov., Van Ban Eue, 14 exs., no date, 1965, Native collr. VIETNAM : Fyan, 900-1,200 m, 4 exs., 11. vii.-9. viii. 1961, N. R. Spencer ; Ban Me Thuot, 1 ex., 16-18. v. 1960, L. W. Quate (BISHOP).

***Liroetiella nigricollis* n. sp.** Fig. 31b

Generally yellowish brown, head black with middle of vertex pitchy brown, thorax entirely black.

Head with vertex finely wrinkled, sparsely impressed by minute punctures, interocular space subequal to transverse diameter of single oculus, and interocular transverse impression distinct, frontal tubercle subtriangular, contiguous, distinctly raised, surface finely wrinkled. Antenna slender, nearly as long as body length ; first segment long, second shortest, nearly 1/4 as long as first, third 1 2/3 times as long as second, fourth 2 1/2 times as long as third, fifth slightly shorter than fourth, sixth slightly shorter than fifth and subequal to seventh in length and shape, eighth slightly shorter than seventh, eighth to tenth subequal to each other in length and shape, eleventh subequal to tenth in length but its apex pointed. Pronotum transverse, 1 1/4 times as broad as long, anterior margin nearly straight, lateral margin distinctly rounded, widest almost at middle, slightly narrowed anteriorly and posteriorly, basal margin distinctly rounded posteriorly, dorsal surface convex, with a pair of lateral transverse furrows starting from anterior corners, rugosely impressed by strong punctures, and interstices of punctures smooth, shining. Scutellum subtriangular, smooth, shining, impunctate.

Elytron with lateral margin rounded, surface strongly and closely punctate, and interstices of punctures smooth, shining.

Length : 3.8-4.5 mm.

Holotype (BISHOP) : THAILAND : Chiangmai Prov., Doi Suthep, 1-15. iv. 1958, T. C. Maa. Paratopotypes : 2 exs., same data as the holotype (BISHOP, KIMOTO).

This new species somewhat resembles *Liroetiella minor* Kimoto, but differs in having thorax entirely blackish.

***Liroetiella tibialis* n. sp.** Fig. 29c

Generally yellowish brown, legs with tibiae and tarsipitchy black.

Head with vertex smooth, shining, sparsely impressed by minute punctures, interocular space distinctly wider than transverse diameter of single oculus, and interocular space distinctly wider than transverse diameter of single oculus, and interocular transverse impression distinct, frontal tubercle subtriangular, contiguous, distinctly raised, surface smooth, shining. Antenna slender, nearly as long as body length ; first segment long, second shortest, nearly $1/4$ as long as first, third twice as long as second, fourth twice as long as third, fifth slightly shorter than fourth, fifth to ninth subequal to each other in length and shape, tenth slightly shorter than ninth, eleventh subequal to tenth in length but its apex pointed. Pronotum transverse, $1 \frac{2}{3}$ times as broad as long, anterior margin nearly straight, lateral margin distinctly rounded, widest almost at middle, slightly narrowed anteriorly and posteriorly, basal margin distinctly rounded posteriorly, dorsal surface convex, with a pair of lateral transverse furrows starting from anterior corners, sparsely impressed by fine punctures, and interstices of punctures smooth, shining. Scutellum subtriangular, smooth, shining, impunctate. Elytron with lateral margin rounded, surface more distinctly and closely punctate than pronotum, and interstices of punctures smooth, shining.

Length : 8.4-10.0 mm.

Holotype (BISHOP) : LAOS : Khammouane Prov., Phon Tiou, 17. v. 1965, Native collr. Paratopotypes : 4 exs., same data as the holotype (BISHOP). Paratypes : THAILAND : Chiangmai, 1,100-

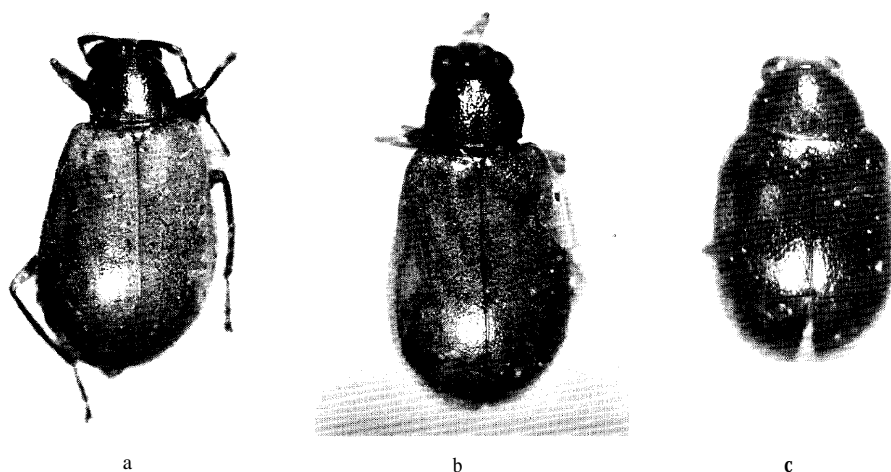


Fig. 31. a, *Liroetiella bicolor* n. sp. ; b, *L. nigricollis* n. sp. ; c, *Desbordesius piceus* n. sp.

1,500 m, no data, 1966, J. H. Sedlacek (BISHOP). LAOS : Khammouane Prov., Phon Tiou, 1 ex., 30. iv. 1965, 4 exs., 28. v. 1965, 3 exs., 8. vi. 1965, at light, 1 ex., 9. vi. 1965, at light, 1 ex., 28. vi. 1965, Native collr ; Borikhane Prov., Pakkading, 1 ex., 10. v. 1965, Native collr ; Vientiane Prov., Vientiane, 1 ex., 15. iii. 1966, J. H. Sedlacek ; Vientiane Prov., Ban Van Eue, 1 ex., 16. iii. 1966, 1 ex., 15. v. 1966, Native collr (BISHOP, KIMOTO) ; Umgeb. Vientiane, 1 ex., iii.-vi. 1963 (MUNCHEN).

This new species resembles *Liroetiella minor* Kimoto, but differs by the longer body and having tibiae and tarsi pitchy black.

Genus *Desbordesus* Laboissière

Desbordesus Lab., 1933, Bull. Mus. Hist. Nat. Paris, ser. 2, 5 : 203 (type : *Desbordesus laevigatus* Laboissière ; Vietnam).

KEY TO SPECIES OF *Desbordesus*

- 1 Dorsal surfaces with pronotum sparsely covered by fine punctures and elytron more strongly punctate ; generally pitchy black, basal segments of antenna reddish brown, legs with most of anterior legs and part of middle leg brownish ; length 1.8-3.0 mm *laevigatus*
 Dorsal surfaces with pronotum rather closely impressed by distinct punctures and elytron distinctly and rather closely punctate ; generally pitchy black, antenna yellowish brown with three or four apical segments pitchy black, legs yellowish brown with femora generally pitchy black ; length 2.1—2.3 mm *piceus*

Desbordesus laevigatus Laboissière

Desbordesus laevigatus Lab., 1933, Bull. Mus. Hist. Nat., Paris, 5 : 204, fig. (Tonkin : Hoa-Binh ; HAMBURG) ; 1934, Ann. Ass. Nat. Levallois-Perret, 21 : 137 (Tonkin : Hoa-Binh).

Distribution : Thailand, Vietnam.

Material examined. THAILAND : Trang Prov, Khaophappa, Khaochong, 200-400 m, 1 ex., 10. i. 1964, G. A. Samuelson ; Banna, Chawang, nr. Nabon, 70 m, 1 ex., 6. ix. 1958, J. L. Gressitt (BISHOP) ; Chiangmai Prov., Doi Suthep, 12 exs., 18. vi. 1965, K. Morimoto & Y. Miyatake ; Chiangmai Prov., Doi Pui, 1 ex., 17. vi. 1965, K. Morimoto ; Khao Chong, nr. Trung, 2 exs., 25. vi. 1965, K. Morimoto (KU). VIETNAM : Dilinh (Djiring), 1,200 m, 2 exs., 22-28. iv. 1960, L. W. Quate ; Blao (Balao), 500 m, 2 exs., 14-21. x. 1960, C. M. Yoshimoto ; Fyan, 900-1,200 m, 18 exs., 11. vii.-9. viii. 1961, N. R. Spencer ; Dalat, 6 km S., 1,400-1,500 m, 2 exs., 12. ix. 1960, J. L. Gressitt, 3 exs., 9. vi.-7. vii. 1961, N. R. Spencer ; Dalat, 1,500 m, 3 exs., 26-27. ix. 1960, C. M. Yoshimoto ; 20 km S., Dalat, 1,300-1,500 m, 2 exs., 11-12. ix. 1960, J. L. Gressitt ; 20 km N. of Pleiku, 1 ex., 9. v. 1960, L. W. Quate ; Kontum, N. of Pleiku, 550 m, 1 ex., 13. v. 1960, L. W. Quate (BISHOP).

Desbordesus piceus n. sp. Fig. 31c

Generally pitchy black, antenna yellowish brown with apical three or four segments pitchy black, legs yellowish brown with femora generally pitchy black.

Head with vertex smooth, shining, sparsely impressed by minute punctures, interocular space distinctly narrower than transverse diameter of single oculus, and interocular transverse impression distinct, frontal tubercle subtriangular, contiguous, distinctly raised, surface smooth, shining, impunctate. Antenna robust, in preapical segments 1/3 as wide as long, and nearly 2/3 as long as body

length ; first segment long, robust, club-shaped, second nearly half as long as first, third slightly shorter and slenderer than second, fourth nearly twice as long as third, fifth subequal to fourth in length and shape, sixth slightly shorter than fifth, sixth to tenth subequal to each other in length and shape, eleventh $1 \frac{2}{3}$ times as long as tenth and its apex pointed. Pronotum transverse, $1 \frac{2}{3}$ times as broad as long, anterior margin slightly rounded posteriorly, lateral margin distinctly rounded, widest almost at middle, and distinctly narrowed anteriorly and posteriorly, basal margin distinctly rounded posteriorly, dorsal surface convex side to side, smooth, shining, rather closely impressed by distinct punctures. Scutellum subtriangular, smooth, shining, impunctate. Elytron strongly convex, with lateral margin distinctly rounded, surface distinctly and rather closely punctate and their interstices smooth, shining.

Length: 2.1-2.3 mm.

Holotype (Type No. 2700, Kyushu Univ.) : THAILAND : Pupan National Park (Nakhom Phanom), 26. ii. 1965, K. Yasumatsu. Paratopotypes: 4 exs., same data as the holotype (KU).

This new species resembles *Desbordesius Zaevigatus* Laboissière, but differs in having the dorsal surfaces more closely and strongly punctate.

Genus *Atrachya* Dejean

Atrachya Dejean, 1837, Cat. Col., ed. 3 : 401 (type : *Galleruca menetriesii* Faldermann ; N. China ; monobasic).-Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B : 587.

Luperodes Motschulsky, 1858, Etud. Ent., 7 : 102 (type : *Luperodes alboplagiatus* Motschulsky ; Ceylon).-Ogloblin, 1936, Fauna USSR, 26, 1 : 306, 374.

Iphidea Baly, 1865, Ent. Monthly Mag., 2 : 127 (type : *Iphidea discrepans* Baly ; Japan).

KEY TO SPECIES OF *Atrachya*

- | | | |
|------|--|---------------------|
| 1 | Smaller than 4.0 mm | 2 |
| | Larger than 4.0 mm | 6 |
| 2(1) | Pronotum with a pair of distinct depressions, and covered by distinct punctures | 3 |
| | Pronotum convex side to side and covered by minute punctures ; generally yellowish brown, elytron black with basal and postmedian markings yellowish brown, in some specimen these markings united ; vertex, meso- and metathorax black ; antenna large-ly dark brown ; length 2.7—3.3 mm | <i>trifasciata</i> |
| 3(2) | Abdomen generally pitchy brown to black | 4 |
| | Abdomen generally yellowish brown | 5 |
| 4(3) | Head black ; generally black ; elytron black with a brownish large median marking from sutural to lateral margins ; prothorax yellowish brown, legs yellowish brown with apical part of tibiae and entire tarsi pitchy brown ; antenna generally dark brown ; length 2.5—2.7 mm | <i>alboplagiata</i> |
| | Head and prothorax yellowish brown ; elytron pitchy black with an elongate marking on disc yellowish brown ; legs yellowish brown with tibiae and tarsi more or less infusate ; antenna pitchy black with basal segments brownish ; length 3.3-3.8 mm | <i>maeklangica</i> |
| 5(3) | Pronotum $1 \frac{3}{4}$ times as wide as long ; elytron yellowish brown with basal margin and base of sutural and lateral margins, together with basal, postmedian and apical markings, blackish ; in most dark colored specimen elytral margins entirely blackish ; generally yellowish brown with vertex and meso- and metathorax pitchy black ; in | |

some specimen fifth abdominal segment partly infusate ; length 2.3-3.2 mm *chiengmaica*
 Pronotum 1 1/2 times as wide as long ; elytron yellowish brown with basal margin
 together with base of lateral and sutural margins blackish ; generally yellowish
 brown, with vertex and meso- and metathorax pitchy black ; fifth abdominal segment
 black ; length 2.7-3.2 mm *indica*

- 6(1) Dorsal surfaces sparsely impressed by fine punctures ; in male elytron with a short
 elongate fovea behind scutellum 7
 Dorsal surfaces closely impressed by strong punctures ; in male elytron without any
 distinct fovea ; generally bluish black with abdomen brownish ; length 4.8-5.3
 mm *atridorsata*
- 7(6) Legs largely brownish ; generally yellowish brown, elytron with humeral and post-
 median markings, meso- and metathorax, tibiae and tarsi blackish ; length 4.0-5.0
 mm *bimaculata*
 Legs largely blackish ; generally yellowish brown with meso- and metathorax and
 abdomen black ; antenna blackish with basal segments brownish ; elytron with an ill-
 defined blackish marking behind scutellum in most specimens, and in some cases
 surface of elytron infusate in various degrees ; length 5.0 mm *impressipennis*

***Atrachya alboplagiata* (Jacoby), new combination**

Charaea ? alboplagiata Jac., 1892, Ann. Mus. Civ. Genova, 32 : 975 (Burma ; GENOVA).

Distribution : Burma, Thailand.

This species is listed neither in Weise, 1924, Col. Cat. Junk, part 78, Galerucinae, nor in Maulik, 1936, Fauna India, Galerucinae.

Material examined. THAILAND : Chiangmai Prov., Doi Pui, 1685 m, 1 ex., 17. vi. 1965, Y. Miyatake ; Chiangmai Prov., Doi Suthep, 1 ex., 18. viii. 1973, S. Nakao (KU).

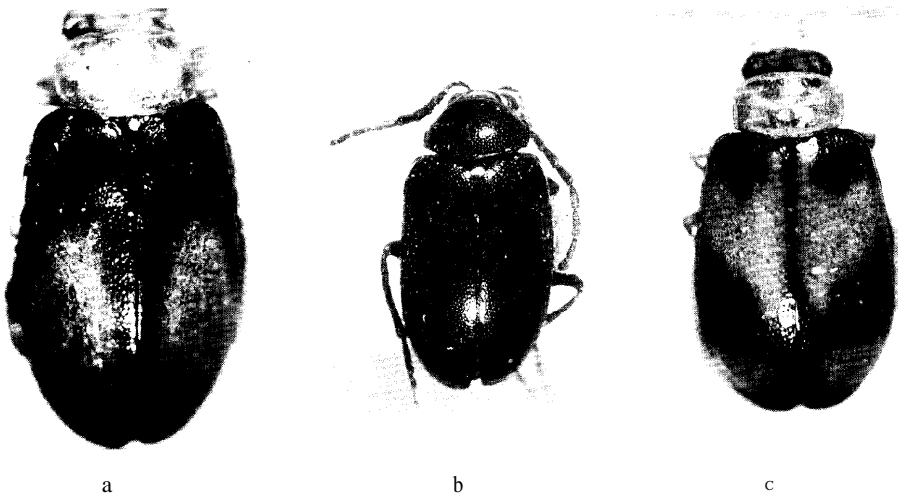


Fig. 32. a, *Atrachya maeklangica* n. sp. ; b, *A. atridorsata* n. sp. ; c, *A. chiengmaica* n. sp.

***Atrachya a tridorsa ta* n. sp.** Fig. 32b

Generally bluish black, abdomen yellowish brown.

Head with vertex smooth, shining, sparsely impressed by fine punctures; interocular space distinctly wider than transverse diameter of single oculus, and interocular transverse impression distinct, frontal tubercle subtriangular and distinctly raised. Antenna slender, nearly $2/3$ as long as length of body; first segment long, robust, second shortest, nearly $2/3$ as long as first, third $1\frac{1}{4}$ times as long as second, fourth $2\frac{1}{2}$ times as long as third, fifth subequal to fourth in length and shape, sixth slightly shorter than fifth, sixth to tenth subequal to each other in length and shape, eleventh slightly longer than tenth and its apex pointed. Pronotum transverse, $1\frac{4}{5}$ times as broad as long, anterior margin slightly rounded anteriorly, lateral margin distinctly rounded, widest almost basal margin, and narrowed anteriorly, basal margin strongly rounded posteriorly, dorsal surface convex side to side, without any trace of depression laterally, rather closely impressed by strong punctures, and interstices of punctures smooth, shining. Scutellum subtriangular, smooth, shining, impunctate. Elytron broader than prothorax, more strongly and closely punctate, and interstices of punctures smooth, shining.

Male : Fifth abdominal segment trilobed, median lobe generally flat. **Female** : Fifth abdominal segment entire.

Length : 4.8-5.3 mm.

Holotype (BISHOP) : LAOS : Muong Sing, NW of Luang Prabang, 650 m, 6-10. vi. 1960, L. W. Quate. Paratopotype : 1 ex., same data as the holotype (KIMOTO). Paratypes : LAOS : Ban Van Eue, 20 km W. of Phou-kow-kuei, 1 ex., 15-31. v. 1965, Native collr (BISHOP). VIETNAM : Fyan, 900-1000 m, 1 ex., 11. vii.-9. viii. 1961, N. R. Spencer (BISHOP).

This new species resembles *Atrachya erythrocephala* (Baly), from Punjab, but differs in having the abdomen yellowish brown.

***Atrachya bimaculata* (Hornstedt)**

Chrysomela bimaculata Hornst., 1788, Schriften Ges. Naturf. Freunde, 8 : 4, fig. (Sumatra, Java).

Cnecodes bisignatus Motschulsky, 1858, Etud. Ent., 7 : 99 (Burma).-Weise, 1892, Dtsche Ent. Z., 1892 : 400 (= ***bimaculata***).

Luperodes scutellatus Jacoby, 1884, Notes Leyden Mus., 6 : 46 (Sumatra) ; 1889, Ann. Mus. Civ. Genova, 27 : 284 (Sumatra, Isl. of Nias) ; **1896, *ibid.*, 36 : 466** (as var. of *bimaculatus*).—Maulik, 1936, Fauna India, Galeruc. : 401 (as var. of *bimaculatus*).

Monolepta bimaculata : Jacoby, 1889, Ann. Mus. Civ. Genova., 27 : 284 (Isl. of Nias).—Maulik, 1936, Fauna India, Galeruc. : 401 (Burma, Ceylon, Sumatra, Java).

Luperodes bisignatus : Allard, 1889, Ann. Soc. Ent. France, 1889 : 310 (Mytho).

Candezea sculpta Blackburn, 1890, Proc. Linn. Soc. N. S. W., ser. 2, 5 : 363 (Queensland) ; 1896, Trans. Roy. Soc. S. Aust., 20 : **89** (= ***bimaculata***).

Candezea bimaculata : Blackburn, 1896, Trans. Roy. Soc. S. Aust., 20 : 89 (New Guinea).

Cnecodes bimaculatus : Weise, 1892, Dtsche Ent. Z., 1892 : 400 (notes).

Luperodes (Cnecodes) bisignatus : Jacoby, 1896, Ann. Mus. Civ. Genova, 36 : 466 (Sumatra).

Distribution : Ceylon, Burma, Thailand, Sumatra, Java, New Guinea, Australia.

Material examined. THAILAND: Samut Prakan, 2 exs., 18. x. 1935; Bangkok, 2 exs., 20. ix. 1949 (BANGKHEN).

***Atrachya chiengmaica* n. sp.** Fig. 32c

Generally yellowish brown, head with vertex pitchy black, elytron yellowish brown, with basal margin and base of sutural and lateral margins, together with basal, postmedian and apical markings blackish ; in most dark colored specimen elytral margins entirely blackish ; antenna pitchy black with three or four basal segments yellowish brown, ventral surfaces with meso- and metathorax pitchy black.

Head with vertex smooth, shining, sparsely impressed by minute punctures, interocular space distinctly wider than transverse diameter of single oculus, and interocular transverse impression distinct, frontal tubercle subtriangular and distinctly raised. Antenna slender, nearly $2/3$ as long as length of body ; first segment long, second shortest, nearly $1/3$ as long as first, third subequal to second in length but more slender, fourth $1\frac{2}{3}$ times as long as third, fifth subequal to fourth in length and shape, sixth slightly shorter than fifth, and sixth to tenth subequal to each other in length and shape, eleventh slightly longer than tenth and its apex pointed. Pronotum transverse, $1\frac{2}{3}$ times as broad as long, anterior margin slightly rounded anteriorly, lateral margin slightly rounded, widest at $1/3$ from anterior margin, and slightly narrowed anteriorly and more strongly so posteriorly, basal margin strongly rounded posteriorly, dorsal surface convex, with a pair of deep depressions laterally, sparsely impressed by distinct punctures, and interstices of punctures smooth, shining. Scutellum subtriangular, smooth shining, impunctate. Elytron broader than prothorax, more strongly and closely punctate, and interstices of punctures smooth, shining.

Male : Fifth abdominal segment trilobed, median lobe generally flat. Female : Fifth abdominal segment entire.

Length: 2.3-3.2 mm.

Holotype (Type No. 2701, Kyushu Univ.) : THAILAND : Chiangmai Prov., Doi Pui, 1,300 m, 17. vi. 1965, K. Morimoto. Paratypes : THAILAND: Chiangmai Prov., Doi Pui, 1,300 m, 1 ex., 17. vi. 1965, Y. Miyatake ; Chiangmai Prov., Doi Suthep, 2 exs., 18. vi. 1965, Y. Miyatake (KU) ; Doi Suthep, 1 ex., 1-15. iv. 1958, T. C. Maa (BISHOP).

This new species resembles *Atrachya trifasciata* (Jacoby), but differs in having pronotum with a pair of distinct depressions and more strongly punctate.

***Atrachya impressipennis* (Jacoby)**

Luuperodes impressipennis Jac., 1890, Ann. Mus. Civ. Genova, 32 : 950 (Burma ; GENOVA).

Monolepta impressipennis : Maulik, 1936, Fauna India, Galeruc. : 394 (Burma).

Distribution : Burma, Thailand, Laos.

Material examined. THAILAND: Mae Taeng, 1 ex., 16. viii. 1973, sweeping of paddy field, K. Yano (KU). LAOS : Sedon Prov., Paksong, 8 exs., 18. v. 1965, P. D. Ashlock (BISHOP).

***Atrachya indica* (Jacoby), new combination**

Monolepta indica Jac., 1896, Ann. Soc. Ent. Belg., 40 : 296 (Kanara, Belgaum, S. Bombay ; BM).

-Maulik, 1936, Fauna India, Galeruc. : 439 (India).

Distribution : India, Thailand.

Material examined. THAILAND : Chiangmai Prov., Chiang Dao, 18 exs., 15-16. vi. 1965, K. Morimoto & Y. Miyatake (KU).

Atrachya maeklangica n. sp. Fig. 32a

Head and prothorax yellowish brown ; elytron pitchy black with an elongate marking on disc yellowish brown ; scutellum pitchy black ; antenna pitchy black with two or three basal segments yellowish brown ; meso- and metathorax and abdomen pitchy brown to black ; legs yellowish brown with tibiae and tarsi more or less infusate.

Head with vertex smooth, shining, sparsely impressed by minute punctures, interocular space distinctly wider than transverse diameter of single oculus, and interocular transverse furrow feebly impressed, frontal tubercle subtriangular, contiguous, distinctly raised, surface smooth, shining. Antenna slender, nearly $\frac{3}{4}$ as long as body length ; first segment robust, club-shaped, second short, nearly $\frac{2}{5}$ as long as first, third $1\frac{1}{3}$ times as long as second, fourth nearly twice as long as third, fifth slightly shorter than fourth, and fifth to ninth subequal to each other in length and shape, tenth slightly shorter than ninth, eleventh $1\frac{1}{3}$ times as long as tenth and its apex pointed. Pronotum transverse, $1\frac{2}{3}$ times as broad as long, anterior margin slightly narrowed anteriorly, lateral margin distinctly rounded, widest slightly before middle, slightly narrowed anteriorly and more strongly so posteriorly, basal margin distinctly rounded posteriorly, dorsal surface convex, with a pair of feeble depressions laterally, sparsely impressed by distinct punctures, and interstices of punctures smooth, shining. Scutellum subtriangular, smooth, shining, impunctate. Elytron with lateral margin rounded, surface more distinctly and closely punctate than pronotum, and interstices of punctures smooth, shining.

Male : Third antennal segment shortest, and nearly $\frac{2}{3}$ as long as second, fourth nearly twice as long as length of second and third combined ; fifth abdominal segment trilobed and its median lobe generally flat. **Female** : Fifth abdominal segment entire.

Length : 3.3-3.8 mm.

Holotype (Type No. 2702, Kyushu Univ.) : THAILAND: Mae Klang Water Fall, nr. Chom Thong, 1 ex., 11. vii. 1965, Y. Miyatake. Paratypes : THAILAND : Ban Tap Dua, Chieng Dao, 1 ex., 15. viii. 1973, K. Yano (KU) ; 1 ex., same data as the holotype but K. Morimoto (KIMOTO).

This new species somewhat resembles *Atrachya alboplagiata* (Jacoby), but differs in being the body length longer, and having the head entirely brownish.

Atrachya trifasciata (Jacoby), new combination

Monolepta trifasciata Jac., 1896, Ann. Soc. Ent. Belg., 40 : 295 (Belgaum, S. Bombay ; BM).

-Maulik, 1936, Fauna India, Galeruc. : 409 (India).

Distribution : India, Thailand.

Material examined. THAILAND : Chiangmai Prof., Fang (Agr. Exp. Station), 600 m, 4 exs., 14. vi. 1965, P. D. Ashlock ; Chiangmai Prov., Chiang Dao, 2 exs., 15. vi. 1965, P. D. Ashlock (BISHOP) ; Chiang Dao, 14 exs., 23. iv. 1965, Y. Yoshiyasu ; Chiang Dao, Ban Tap Dua, 3 exs., 15. viii. 1973, K. Yano ; Mae Talai, nr. Chiang Dao, 1 ex., 3. vii. 1970, upland rice, K. Yano ; Fang, 4 exs., 21-22. viii. 1973, 2 exs., 22. viii. 1973, S. Nakao (KU).

Genus *Monolepta* Chevrolat

Monolepta Chevrolat, 1837, in Dejean, Cat. Col., ed. 3. : 408 (type : *Crioceris bioculata* Fabricius ; South Africa).-Maulik, 1936, Fauna India, Galeruc. : 373.—Ogloblin, 1936, Fauna USSR, 26, 1 : 25, 313, 376.—Chôjô, 1962, Phil. J. Sci., 91 (1-2) : 14, 109.—Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B:602.—Kimoto, 1965, J. Fac. Agr. Kyushu Univ., 13 (3) : 389.

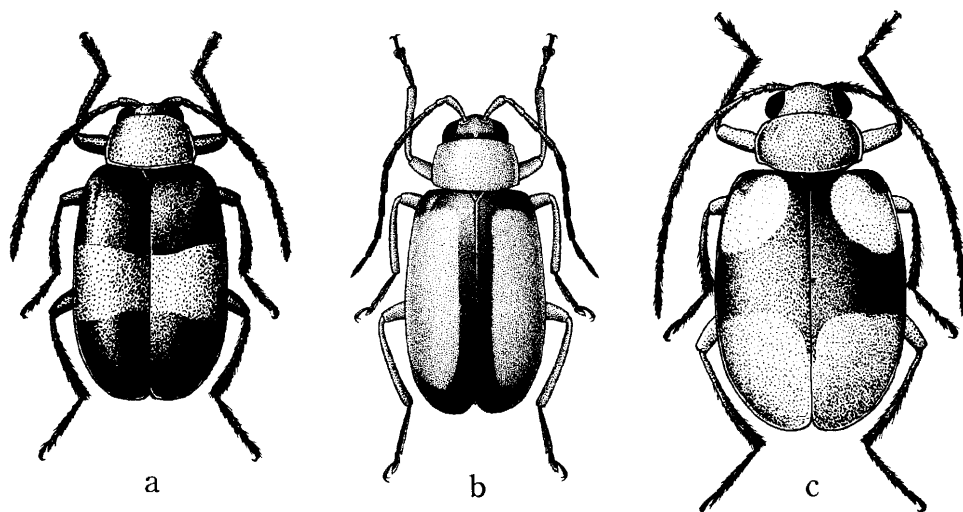


Fig. 33. a, *Monolepta leechi* Jacoby ; b, *M. flavovittata* Chen ; c, *M. signafa* (Olivier).

Cnecodes Motschulsky, 1858, Etud. Ent., 7 : 100.

Ochralea Clark, 1865, Ann. Mag. Nat. Hist., ser. 3, 15 : 144 (type : *Ochralea nigricornis* Clark).

-Chapuis, 1875, Gen. Col., 11 : 235, 336.

Candezea Chapuis, 1879, Ann. Mus. Civ. Genova, 15 : 24.

Alaotra Duvivier, 1891, C. R. Soc. Ent. Belg., ser. 4, 21 : 318.

Damais Jacoby, 1908, Ann. Soc. Ent. Belg., 48: 118.

KEY TO SPECIES OF *Monolepta*

- 1 In male, elytron with a cavity on basal part at or near suture, or near middle of disc 2
- In male, elytron without any distinct cavity 6
- 2(1) Elytron brownish with subapical and/or basal markings pitchy or blackish 3
- Elytron brownish with three transverse bands blackish ; generally yellowish brown, with head and meso- and metathorax blackish ; in male elytron with a longitudinal cavity on outer part of disc ; length 5.0-5.7 mm *cavipennis*
- 3(2) Larger than 4.5 mm 4
- Smaller than 4.5 mm 5
- 4(3) Pronotum slightly depressed laterally and sparsely impressed by minute punctures ; generally yellowish brown ; head and pronotum reddish brown ; antenna generally pitchy brown, meso- and metathorax and legs blackish ; in male elytron with an elongate deep fovea contiguous to suture and with a distinct tubercle on outer margin of fovea, and apical 1/3, humeral marking and basal 1/3 of sutural and lateral margins and entire basal margin blackish ; in female elytron with basisutural marking blackish, and in some specimen this marking enlarged and connected with humeral marking ; in some specimen elytron entirely yellowish brown ; length 5.3-6.0 mm *marginipennis*

- Pronotum with a pair of deep oblique depressions laterally and closely impressed by distinct punctures ; generally yellowish to reddish brown ; abdomen yellowish brown, elytron yellowish brown with basal and apical 1/3 blackish ; in male elytron with a longitudinal shallow depression along suture and with a tuft of hairs behind scutellum ; length 5.3-6.0 mm *scutellaris*
- 5(3) Pronotum subquadrate, 1 1/4 times as wide as long, distinctly but not closely punctate ; generally reddish brown, elytron with a large round yellowish marking, which is almost completely surrounded by pitchy black, and connected with sutural margin ; abdomen yellowish brown ; in male elytron with an elongate fovea, somewhat oblique, contiguous to suture ; length 4.1 mm . . . * *discoidalis*
- Pronotum transverse, 1 1/2 times as wide as long, widest almost at anterior margin, and its surface strongly and rather closely punctate ; generally reddish brown, elytron with basal 2/3 yellowish brown, and humerus, basal 1/4 of sutural and basal half of lateral margins and entire basal margin pitchy brown, and apical half blackish brown and gradually become paler towards apex ; in male elytron with an elongate fovea contiguous to suture ; length 4.1-4.5 mm *vietnamica*
- 6(1) View from side normal, body not strongly humpbacked * 7
View from side, body strongly humpbacked, with great depth ; coloration variable : brown, pitchy brown, or pitchy black in various degrees, in most pale colored specimen entirely brown and most dark colored specimen, almost entirely pitchy black ; length 3.5-4.0 mm *longitarsis*
- 7(6) Elytron entirely black, without any yellowish or reddish marking 8
Elytron not entirely black 9
- 8(7) Legs entirely yellowish brown ; generally yellowish brown, ventral surfaces pitchy black ; pronotum distinctly punctate, and with a pair of shallow depressions ; antenna relatively robust, and with second and third segments subequal to each other in length ; length 2.8-3.0 mm *luperina*
Legs entirely black ; generally pitchy black, head and prothorax reddish brown ; length 2.7-3.5 mm *semiluperina*
- 9(7) Pronotum entirely black 10
Pronotum generally yellowish or reddish 12
- 10(9) Elytron entirely yellowish or reddish 11
Elytron black with a large median marking yellowish brown ; generally pitchy black, meso- and metathorax black, abdomen reddish brown ; length 5.3-5.4 mm *pseudornata*
- 11(10) Legs entirely yellowish brown ; generally yellowish brown ; head black, in some specimen vertex pitchy black medianly ; length 4.2-4.8 mm *langbianica*
Legs entirely black ; generally reddish brown, head, prothorax, and antenna black ; length 3.8-3.9 mm *subflavipennis*
- 12(9) Elytron generally yellowish to reddish brown ; generally dorsal surfaces brownish 13
Elytron in part blackish, at least its margin 25
- 13(12) Interstices of eyes much narrower than transverse diameter of single eye 14
Interstices of eyes subequal to or much wider than width of transverse diameter of single eye 15
- 14(13) Pronotum 1 2/3 times as wide as long and its surface impressed by a pair of depressions laterally ; elytron impressed by strong punctures ; generally reddish

- brown ; in some specimen vertex blackish to pitchy brown in various degrees, and in some female specimen fifth abdominal segment blackish ; length 4.2-5.7 mm *nigrifrons*
- Pronotum 1 1/3 times as wide as long, and convex side to side ; elytron impressed by finer punctures; elytral margin widely brownish basally ; generally yellowish brown, elytron with reddish brown basally ; length 5.7-7.5 mm *rubrobasalis*
- 15(13) Legs brownish with tibiae and tarsi blackish 16
- Legs entirely brownish 17
- 16(15) Smaller ; punctures of dorsal surfaces stronger ; generally yellowish brown ; length 6.3-6.9 mm *nigrotibialis*
- Larger ; punctures of dorsal surfaces finer ; generally ochraceous ; length 9.3-12.0 mm *nigripes*
- 17(15) Elytron with basal 1/3 reddish 18
- Elytron generally brownish, in some cases basal margin narrowly reddish 19
- 18(17) Elytron brownish with basal 1/3 reddish ; generally reddish brown, antenna generally blackish ; length 4.8 mm *hageni*
- Elytron with basal 1/3 and apical 1/3 reddish brown and median 1/3 yellowish brown ; generally yellowish brown, head black, metathorax and posterior leg reddish brown ; length 5.7 mm *spenceri*
- 19(17) Body length shorter than 4 mm 20
- Body length longer than 4 mm 22
- 20(19) Pronotum convex side to side, without any trace of depression 21
- Pronotum with a pair of depressions laterally ; generally yellowish brown, antenna dark brown, in some specimen elytron reddish brown ; length 3.0-3.3 mm *severini*
- 21(20) Body subparallel-sided ; pronotum sparsely impressed by minute punctures, and elytron more distinctly punctate; antenna yellowish brown with apical segments slightly infusate ; length 3.0-4.0 mm *lauta*
- Body oval ; dorsal surfaces of prothorax and elytron rather closely and strongly punctate; generally yellowish brown; antenna pitchy black with basal segments brownish ; length 3.0 mm *annamita*
- 22(19) Ventral surfaces entirely brownish 23
- Ventral surfaces brownish with metathorax black ; generally yellowish brown ; length 6.3—6.8 mm *pallida*
- 23(22) Antenna generally blackish 24
- Antenna generally brownish ; generally yellowish brown, in some specimen elytron with basal margin reddish ; length 4.2—5.0 mm *pallidula*
- 24(23) Antenna blackish with apical four or five segments brownish ; generally yellowish brown ; length 4.2-5.0 mm *pallidulella*
- Antenna blackish with basal four segments brownish ; generally yellowish brown ; length 4.0 mm *testacea*
- 25(12) Elytron brownish with basal and apical margins narrowly blackish, and sutural and lateral margins generally brownish, without any discal stripe or marking ; generally yellowish brown 26
- Not as above combination of characters 28
- 26(25) Ventral surfaces entirely yellowish brown 27
- Ventral surfaces with metathorax blackish ; generally yellowish brown, antenna generally pitchy black, tarsi partly infusate ; length 3.3-4.1 mm *fyanic*

- 27(26) Larger ; pronotum more transverse, nearly 1 2/3 times as wide as long ; generally yellowish brown with tibiae and tarsi pitchy brown to black ; length 7.2-9.3 mm *rugripennis*
 Smaller ; pronotum more elongate, nearly 1 1/2 times as wide as long ; generally yellowish brown with antenna, tibiae and tarsi pitchy brown to black ; length 5.4-6.3 mm *banmethuotica*
- 28(25) Elytron brownish with basal, lateral, sutural and apical margins narrowly blackish, without any discal stripe or marking, except humeral marking 29
 Not as above combination of characters 33
- 29(28) Head black * 30
 Head generally brownish 31
- 30(29) Smaller ; abdomen pitchy black with fifth abdominal segments brownish ; elytron yellowish brown with margins, together with humerus black to pitchy brown, and basal part of sutural margin somewhat widely blackish ; prothorax yellowish brown, meso- and metathorax pitchy black ; antenna generally pitchy black ; legs yellowish brown with tibiae and tarsi somewhat infusate ; length 2.7 mm *semihumeralis*
 Larger ; abdomen yellowish brown with apex of fifth segment and middle of pygidium blackish ; elytron yellowish brown with margins somewhat widely blackish ; prothorax yellowish brown, meso- and metathorax and antenna black ; legs yellowish brown with tibiae and tarsi black, and dorsal surface of anterior femur infusate ; length 4.2-6.0 mm *dalatica*
- 31(29) Head, pronotum and elytron generally yellowish brown 32
 Head and pronotum reddish brown ; generally yellowish brown, elytron with margins, including humerus, entirely blackish, ventral surface with meso- and metathorax slightly infusate, antenna generally black, legs with tibiae and tarsi blackish ; length 4.2-5.7 mm *atrimarginata*
- 32(31) Ventral surfaces entirely brownish ; generally yellowish brown with vertex, antenna, tibiae and tarsi blackish ; length 6.0-6.7 mm *miyatakei*
 Ventral surfaces with metathorax and fifth abdominal segment blackish ; generally yellowish brown, elytron with humerus blackish, tibiae and tarsi pitchy black ; length 5.3-6.5 mm *nigrobasalis*
- 33(28) Elytron of two colors ; ground color black with single band or marking of yellowish or reddish 34
 Not as above combination of characters 41
- 34(33) Abdomen entirely black 35
 Abdomen largely yellowish 37
- 35(34) Legs partly blackish 36
 Legs entirely yellowish brown ; generally yellowish brown with meso- and metathorax and abdomen pitchy black ; length 3.0-3.3 mm *apicatus*
- 36(35) Legs blackish with anterior leg brownish ; head, prothorax and antenna yellowish brown, meso- and metathorax and abdomen blackish ; length 3.8-5.1 mm *leechii*
 Legs yellowish brown with middle and posterior tibiae and tarsi blackish ; head, prothorax and antenna yellowish brown, meso- and metathorax and abdomen blackish ; length 3.5-4.2 mm *birmanensis*
- 37(34) Elytron black with an elongate yellowish marking covering about 3/4 of length and 4/5 of width of disc and free from lateral and sutural margins 38
 Elytron with a transverse band covering from lateral margin to sutural mar-

gin	40
38(37) Head yellowish brown ; larger than 2.0 mm	39
Head black ; generally yellowish brown ; meso- and metathorax and basal part of first abdominal segment, tibiae and tarsi blackish ; antenna pitchy black with basal segments brownish ; length 2.0 mm	<i>exigua</i>
39(38) Pronotum closely impressed by strong punctures ; generally yellowish to reddish brown ; meso- and metathorax black ; antenna pitchy black with basal segments brownish ; length 2.7—3.0 mm	<i>quatei</i>
Pronotum sparsely impressed by minute punctures ; head, prothorax and abdomen yellowish brown with fifth abdominal segment blackish ; meso- and metathorax black ; length 3.2—3.6 mm	<i>flavovittata</i>
40(37) Head yellowish brown ; generally yellowish brown, with meso- and metathorax and middle and posterior legs pitchy black ; length 4.8—5.0 mm	<i>sublata</i>
Head black ; prothorax yellowish brown, meso- and metathorax pitchy brown, abdomen reddish brown, antenna and legs pitchy brown to black ; length 5.4 mm	<i>gisionica</i>
41(33) Elytron with four or six bands of black, red and yellow ; never with discal spots, stripes or curved markings	42
Not as above combination of characters	41
42(41) Elytron with four bands of black, red and yellow ; band one black, rather narrow ; band two red, occupying almost basal half ; band three yellowish ; band four black, covering apex ; head, thorax and abdomen almost entirely reddish or brownish ; antenna and legs largely pitchy brown to black ; length 5.4—6.0 mm	<i>zonalis</i>
Elytron with six bands of black, red and yellow ; band one black, rather narrow ; band two red, twice as wide as band one ; band three black, curved interiorly ; band four yellowish, widest ; band five black ; band six reddish brown, covering apex ; head, prothorax and antenna yellowish brown, meso- and metathorax, and middle and posterior legs pitchy black, abdomen reddish brown ; length 4.5—5.0 mm	<i>orientalis</i>
43(41) Elytron blackish with two large discal markings brownish	44
Not as above combination of characters	47
44(43) Head generally brownish	45
Head with vertex pitchy black ; generally reddish brown, meso- and metathorax blackish ; antenna and most of tibiae and tarsi pitchy brown ; length 3.9—4.2 mm	<i>quadrinotata</i>
45(44) Elytron with basal marking closely situated to basal margin ; generally yellowish to reddish brown, with meso- and metathorax blackish	46
Elytron with basal marking widely separated from basal margin ; generally reddish brown, and antenna and legs mostly pitchy black ; length 5.3—6.0 mm	<i>laosensis</i>
46(45) Larger ; elytron with apex brownish ; length 4.5 mm	<i>pseudosignata</i>
Smaller ; elytron with apex blackish ; length 3.5—3.9 mm	<i>signata</i>
47(43) Elytron with lateral, apical and sutural margins narrowly blackish	48
Elytron with lateral, apical and sutural margins in part brownish	50
48(47) Elytron with basal margin yellowish or reddish	49
Elytron with basal, lateral, sutural and apical markings narrowly blackish, and with six discal markings (2 : 2 : 2) blackish ; generally yellowish brown, head, metathorax and pygidium largely pitchy black, antenna, tibiae and tarsi pitchy brown ; length	

- 4.2 mm *wilsoni*
- 49(48) Smaller ; elytron with a longitudinal blackish stripe on disc, in some specimen entirely brownish dorsally ; generally yellowish to reddish brown, with antenna, tibiae and tarsi blackish ; length 2.6-2.8 mm * *sexlineata*
- Larger ; elytron reddish basally ; head black ; generally yellowish brown with fifth abdominal segment, tibiae and tarsi blackish ; length 5.7-7.2 mm *rondoni*
- 50(47) Elytron generally brown with margins in part narrowly blackish, and without any discal marking 51
- Not as above combination of characters 53
- 51(50) Elytron with punctures entirely irregularly impressed 52
- Elytron with punctures arranged in semiregular longitudinal rows, and their interstices longitudinally raised ; generally yellowish brown with metathorax blackish ; antenna generally pitchy black with basal segments brownish ; length 3.0-4.1 mm *semicostata*
- 52(51) Elytron with basal, basal 2/3 of lateral and most of sutural margins blackish ; generally yellowish brown, meso- and metathorax and basal part of first to fourth abdominal segments blackish ; length 5.7-6.3 mm *trangica*
- Elytron with basal margin blackish ; generally yellowish brown with metathorax blackish ; length 3.6-4.5 mm *azumai*
- 53(50) Elytron generally black with apical half to 1/3 reddish brown and its boundary ill-defined, and without any discal markings 54
- Elytron with discal markings 55
- 54(53) Antenna and legs entirely yellowish brown ; head, meso- and metathorax generally pitchy brown to black, and prothorax and middle of metathorax and abdomen yellowish to reddish brown ; length 4.8 mm *semiapicalis*
- Antenna and legs largely pitchy black to black ; generally pitchy black with head and prothorax reddish brown ; length 3.2-3.6 mm *apicipennis*
- 55(53) Elytron with basal 1/4 generally blackish 56
- Elytron with basal 1/4 not generally blackish 59
- 56(55) Head with vertex blackish 57
- Head generally brownish 58
- 57(56) Legs entirely yellowish brown ; head entirely black ; generally yellowish brown with metathorax largely pitchy black, elytron with basal 1/3 and large subapical marking blackish ; length 3.8 mm *cambodia*
- Legs yellowish brown with posterior femur black ; head yellowish brown with vertex black ; generally yellowish brown, elytron yellowish brown with basal 1/4 and postmedian marking blackish ; length 4.2 mm *zonula*
- 58(56) Antenna slenderer, entirely yellowish brown ; generally yellowish brown, with metathorax, in some specimen middle and posterior femora also, pitchy brown to black ; elytron with basal 1/4 and a large subapical marking pitchy brown to black ; length 3.5-4.0 mm *bifasciata*
- Antenna robust, generally pitchy brown with first and apical three segments brownish ; generally yellowish brown, elytron with basal 1/4 and a large subapical marking blackish ; length 3.3 mm *thailandica*
- 59(55) Elytron with dark spots or postmedian band, or apical 1/3 blackish 60
- Elytron with basal margin and basal 1/2 of lateral and sutural margins, in some specimen entire lateral and apical margins also, rather broadly blackish, and

- another transverse or oblique black markings situated before middle, connected with sutural and lateral margins ; generally yellowish brown, metathorax always black, antenna generally pitchy brown ; length 3.5-4.0 mm *hieroglyphica*
- 60(59) Elytral markings defined, with seven pairs of markings, viz. scutellar, humeral, basal, lateral, postmedian, latero-apical and apical markings, together with basal part of sutural margin, blackish ; generally yellowish brown, pronotum with blackish lateral marking which is attached to lateral margin ; metathorax black, antenna generally pitchy black, legs in part infusate ; length 5.7-6.8 mm *duodecimmaculata*
- Elytral markings ill-defined, basal, apical and basal half of lateral and sutural margins, together with basal, postmedian and latero-subapical markings blackish ; generally yellowish brown, metathorax black, pronotum with lateral margin widely blackish in most specimens; head with vertex in part infusate ; length 3.0-4.2 mm *scrip ta*

Monolepta annamita Laboissière

Luperodes ferruginea Allard, 1889, Ann. Soc. Ent. France, 1889 : 311 (Hue; PARIS).

Monolepta annamita Laboissière, 1935, Ann. Ass. Nat. Levallois-Perret, 21 : 143 (new name for

Luperodes ferruginea Allard, nec Karsch).

Distribution : Thailand, Laos, Vietnam.

Material examined. THAILAND : Chiangmai Prov., Chiangdao, 1 ex., 15. vi. 1965, K. Morimoto (KU). LAOS : Vientiane Prov., Vientiane, 1 ex., 26. v. 1965, P. D. Ashlock (BISHOP). VIETNAM : Ban Me Thuot, 3 exs., 16-18. v. 1960, L. W. Quate ; 55 km NW of Phan Rang, 1 ex., 8-16. xi. 1960, C. M. Yoshimoto ; Quang Tri, 2 km N., 1 ex., 30. iv. 1970, A. R. Gillogly (BISHOP).

Monolepta apicipennis n. sp. Fig. 36c

Head and prothorax reddish brown ; elytron pitchy black with apical 1/3 reddish brown, antenna

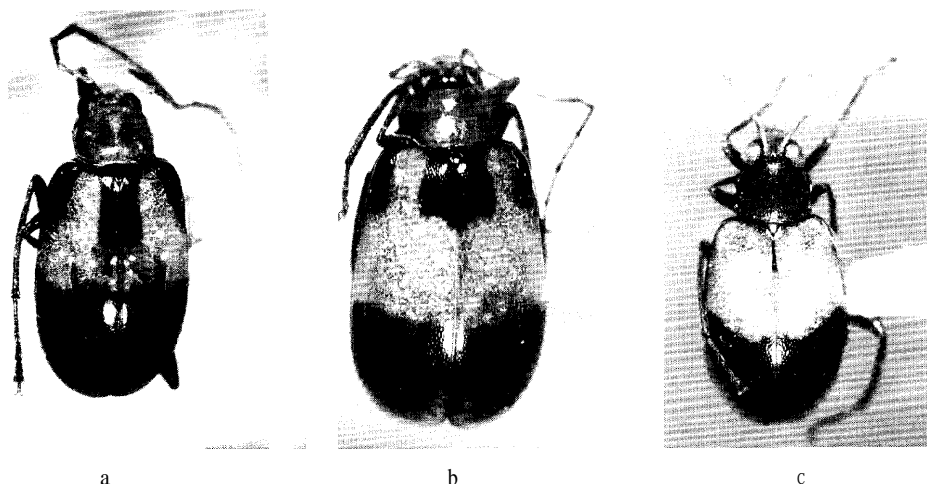


Fig. 34. a, *Monolepta scutellaris* n. sp. ; b, *M. marginipennis* (Jacoby) ; c, *M. vietnamica* n. sp.

pitchy black, meso- and metathorax, abdomen and legs black.

Head with vertex slightly wrinkled, sparsely impressed by minute punctures, interocular space distinctly wider than transverse diameter of single oculus, and interocular transverse impression distinct, frontal tubercle subtriangular and feebly raised. Antenna slender, nearly $2/3$ as long as length of body ; first segment long, second shortest, nearly $1/3$ as long as first, third subequal to second in length but slenderer, fourth nearly four times as long as third, fifth slightly longer than fourth, fifth to eighth subequal to each other in length and shape, ninth slightly shorter than eighth, ninth subequal to tenth in length and shape, eleventh subequal to tenth in length but its apex pointed. Pronotum transverse, $1\frac{2}{3}$ times as broad as long, anterior margin nearly straight, lateral margin slightly rounded, widest at $1/3$ from anterior margin and slightly narrowed anteriorly and more strongly so posteriorly, dorsal surface convex side to side, without any trace of depression laterally, sparsely impressed by distinct punctures, and interstices of punctures smooth and shining. Scutellum subtriangular, smooth, shining, sparsely impressed by minute punctures. Elytron broader than prothorax, more strongly and closely punctate, and interstices of punctures smooth, shining.

Male : Fifth abdominal segment trilobed, median lobe generally flat. **Female** : Fifth abdominal segment entire.

Length : 3.2-3.6 mm.

Holotype (BISHOP) : VIETNAM : Mt. Lang Bian, 1,500-2,000 m, 19. v.-8. vi. 1961, N. R. Spencer. Paratopotype : 1 ex., same data as the holotype (KIMOTO). Paratypes : VIETNAM : Dilinh (Djiring), 1 ex., 1,200 m, 22-28. iv. 1960, L. W. Quate ; Dalat, 1,500 m, 1 ex., 29. iv.-4. v. 1960, S. Quate & L. Quate ; Dalat, 6 km S., 1,400-1,500 m, 1 ex., 9. vi.-7. vii. 1961, N. R. Spencer (BISHOP).

This new species somewhat resembles *Monolepta semiapicalis* Kimoto, but differs by the shorter body, and having antenna and the legs largely pitchy black.

***Monolepta trimarginata* n. sp.** Fig. 44b

Generally yellowish brown, head and pronotum reddish brown, elytron with margins, including humerus, entirely blackish, ventral surfaces with meso- and metathorax slightly infusate, antenna generally black, with basal three segments more or less brownish, legs with tibiae and tarsi blackish.

Head with vertex smooth, shining, sparsely impressed by minute punctures, interocular space distinctly wider than transverse diameter of single oculus, and interocular transverse impression distinct, frontal tubercle subtriangular and distinctly raised. Antenna slender, nearly $2/3$ as long as body length ; first segment long, second shortest, nearly $1/3$ as long as first, third as long as second in length and slenderer, fourth nearly four times as long as third, fifth slightly longer than fourth, fifth to eighth subequal to each other in length and shape, ninth slightly shorter than eighth, ninth subequal to tenth in length and shape, eleventh slightly longer than tenth and subequal to eighth in length but its apex pointed. Pronotum transverse, $1\frac{1}{2}$ times as broad as long, anterior margin nearly straight, lateral margin slightly rounded, widest almost at middle, slightly narrowed anteriorly and posteriorly, basal margin strongly rounded posteriorly, dorsal surface convex side to side, without any trace of depression laterally, sparsely impressed by distinct punctures, and interstices of punctures smooth and shining. Scutellum subtriangular, smooth, shining, impunctate. Elytron broader than prothorax, more strongly and closely punctate, and interstices of punctures impressed by minute punctures.

Male : Fifth abdominal segment trilobed, median lobe generally flat. **Female** : Fifth abdominal segment entire.

Length : 4.2-5.7 mm.

Holotype (BISHOP) : LAOS : Vientiane Prov., Ban Van Eue, 16. iii. 1966, Native collr. Paratypes : LAOS : Vientiane Prov., Ban Van Eue, 1 ex., 14-16. iv. 1965, J. L. Gressitt, 1 ex., 13. vii. 1965,

1 ex., 31. vii. 1965, 1 ex., 15. xii. 1966, 1 ex., 1-15. ix. 1967, 2 exs., 31. xii. 1968, Native collr (BISHOP, KIMOTO).

This new species resembles *Monolepta semihumeralis* Kimoto, but differs in having the head yellowish brown, and the ventral surfaces yellowish brown with meso- and metathorax blackish.

***Monolepta arumai* n. sp.** Fig. 39c

Generally yellowish brown, elytron with basal margins and basal part of lateral and sutural margins black ; antenna black with basal three or four segments brownish ; ventral surfaces with meso- and metathorax and fifth abdominal segment black.

Head with vertex smooth, shining, sparsely impressed by minute punctures, interocular space distinctly narrower than transverse diameter of single oculus, and interocular transverse impression distinct, frontal tubercle subtriangular and distinctly raised. Antenna slender, nearly $2/3$ as long as body length ; first segment long, second shortest, nearly half as long as first, third nearly as long as second in length, fourth nearly twice as long as third, fifth slightly longer than fourth, sixth slightly shorter than fifth, and sixth to ninth subequal to each other in length and shape, tenth slightly shorter than ninth, eleventh slightly longer than tenth and subequal to ninth in length but its apex pointed. Pronotum transverse, $1\frac{1}{2}$ times as broad as long, anterior margin nearly straight, lateral margin slightly rounded, widest almost at middle, slightly narrowed anteriorly and posteriorly, basal margin strongly rounded posteriorly, dorsal surface convex, with a pair of deep oblique depressions laterally, distinctly impressed by large punctures, and interstices of punctures smooth, shining. Scutellum subtriangular, finely granulate, impunctate. Elytron broader than prothorax, more strongly and closely punctate, and interstices of punctures smooth, shining.

Male : Fifth abdominal segment trilobed, median lobe distinctly depressed as a whole. **Female :** Fifth abdominal segment entire.

length : 3.6-4.5 mm.

Holotype (RU) : THAILAND : Khon Kaen, 24. viii. 1980, S. Azuma. Paratopotypes : 6 exs., same data as the holotype (RU, KIMOTO). Paratypes : THAILAND : Khon Kaen, 1 ex., 20. xii. 1978, 1 ex., 22. xii. 1979, 1 ex., 7. x. 1981, 1 ex., 8. x. 1981, S. Azuma (RU) ; Chiang Dao, Ban Tap Dua, 3 exs., 15. viii. 1973, K. Yano ; Samptong, 1 ex., 17. viii. 1973, S. Nakao (KU) ; Chiangmai Prov., 2 exs., 28-31. iii. 1958, 3 exs., 29. iii.-vi. 4. 1958, 4 exs., 1-5. iv. 1958, T. C. Maa ; Chiangmai, 1,200 m, 1 ex., 11. iv. 1966, J. Sedlacek (BISHOP).

This new species resembles *Monolepta semicostata* Kimoto, but differs in having elytron with punctures confusedly impressed and without any longitudinal costa dorsally.

***Monolepta banmethuotica* n. sp.** Fig. 40c

Generally yellowish brown, elytron with basal, apical and basal part of lateral margins black ; head reddish brown ; antenna pitchy brown with basal three segments yellowish brown, legs with tibiae and tarsi pitchy black.

Head with vertex smooth, shining, sparsely impressed by fine punctures, interocular space distinctly wider than transverse diameter of single oculus, and interocular transverse impression distinct, frontal tubercle subtriangular and distinctly raised. Antenna slender, nearly $2/3$ as long as body length ; first segment long, second shortest, nearly $1/3$ as long as first, third $1\frac{1}{2}$ times as long as second, fourth $2\frac{1}{2}$ times as long as third, fifth slightly longer than fourth, fifth to eighth subequal to each other in length and shape, ninth slightly shorter than eighth, tenth subequal to ninth in length and shape, eleventh subequal to ninth in length but its apex pointed. Pronotum transverse, $1\frac{1}{2}$ times

as broad as long, anterior margin nearly straight, lateral margin slightly rounded, widest almost at middle, slightly narrowed anteriorly and posteriorly, basal margin strongly rounded posteriorly, dorsal surface convex, with a pair of deep oblique depressions laterally, closely impressed by distinct punctures, and interstices of punctures smooth and shining. Scutellum subtriangular, smooth, shining, impunctate. Elytron broader than prothorax, more strongly and closely punctate, and interstices of punctures smooth, shining.

Male : Fifth abdominal segment trilobed, median lobe generally flat. **Female** : Fifth abdominal segment entire.

Length : 5.4-6.3 mm.

Holotype (BISHOP) : VIETNAM : Ban Me Thuot, 500 m, 20-24. xii. 1960, L. W. Quate. Paratopotype : 1 ex., same data as the holotype (BISHOP). Paratypes : VIETNAM : Ban Me Thuot, 4 exs., 20-24. xii. 1960, L. W. Quate & C. M. Yoshimoto ; Phon Tiou, 1 ex., 1-15. iv. 1965, J. L. Gressitt (BISHOP ; KIMOTO).

This new species resembles *Monolepta fyanica* Kimoto, but differs by the longer body and having the ventral surfaces entirely yellowish brown.

***Monolepta bifasciata* (Hornstedt) Fig. 45c**

Chrysomela bifasciata Hornst., 1788, Schrif. Naturf. Freunde, Berlin, 8 : 3, fig. 6 (Java).

Cryptocephalus multicolor Gmelin, 1790, ed. Linnaeus, Systema Nat., 1(4) : 1712 (Java ; new name for *Chrysomela bifasciata* Hornstedt).

Crioceris quadrinotata Fabricius, 1801, Syst. Eleu., 1 : 460 (Sumatra).-Weise, 1910, Phil. J. Sci., ser. D, 5(4) : 255 (= *bifasciata*)

Luperodes latefascia Motschulsky, 1858, Etud. Ent., 7 : 104 (Indes orientales).-Jacoby, 1884, Notes Leyden Mus., 6 : 54 (= *bifasciata*).

Monolepta rubrosignata Boheman, 1859, Eugenes Resa, 2(1) : 182 (Manila).-Weise, 1910, Phil. J. Sci., ser. D, 5(4) : 225 (= *bifasciata*).

Monolepta latefascia: Chapuis, 1875, Gen. Col., 11 : 236 (genus).

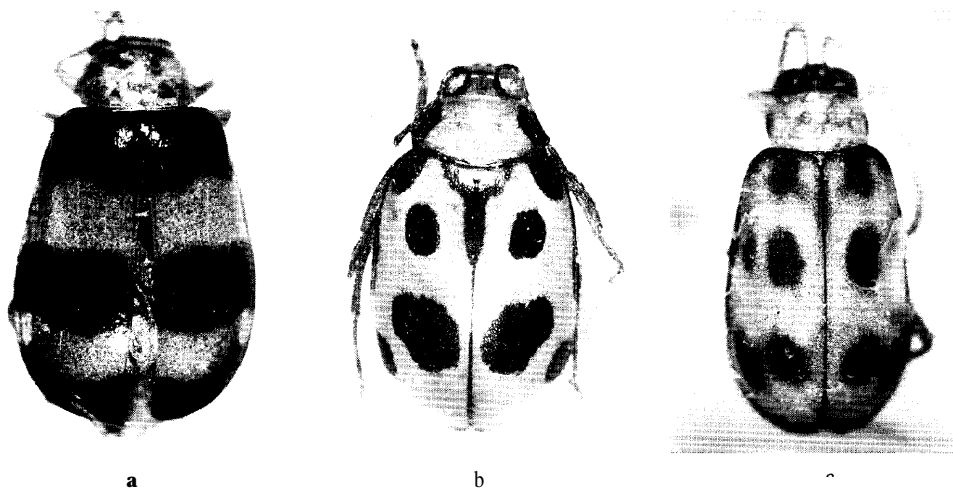


Fig. 35. a, *Monolepta cavipennis* Baly ; b, *M. duodecimmaculata* (Jacoby) ; c, *M. wilsoni* n. sp.

Monolepta bifasciata : Jacoby, 1884, Notes Leyd. Mus., 6 : 53 (Sumatra, India).-Weise, 1910, Phil. J. Sci., ser. D, 5(4) : 225 (Philippines).-Maulik, 1936, Fauna India, Galeruc. : 408 (India, Ceylon, Penang, Sumatra, Singapore).

Monolepta quadrinotata : Jacoby, 1889, Ann. Mus. Civ. Genova, 27 : 284 (Sumatra, Nias).
—Kimoto, Izmay & Samuelson, 1984, Esakia, Kyushu Univ., 21 : 50, Fig. (Papua New Guinea).

Distribution : India, Ceylon, Thailand, Cambodia, Laos, Malaya, Singapore, Sumatra, Philippines, New Guinea.

Material examined. THAILAND : Khao Chong, nr. Trung, 1 ex., 24. vi. 1965, Y. Miyatake (KU) ; Kao Yai, 1 ex., 29-31. i. 1968, K. Baba (KIMOTO). CAMBODIA : Ph. Chisau, 40 km, S. of P. Penh, 20 m, 1 ex., 29. iv. 1961, N. R. Spencer (BISHOP). LAOS : Khammouane Prov., Phon Tiou, 1 ex., 10. vi. 1965, Native collr (BISHOP).

***Monolepta birmanensis* Jacoby**

Monolepta birmanensis Jac., 1892, Ann. Mus. Civ. Genova, 32 : 982 (Burma ; GENOVA).
-Duvivier, 1892, Ann. Soc. Ent. Belg., 36 : 444 (Kurseong ; as *birmaensis*).—Maulik, 1936, Fauna India, Galeruc. : 405 (Burma, Darjeeling).

Distribution : India, Burma, Thailand, Vietnam.

Material examined. THAILAND : Chiangmai Prov., Doi Pui, 1,300 m, 5 exs., 17. vi. 1965, K. Morimoto & Y. Miyatake (KU). VIETNAM : Mt. Lang Bian, 1,500-2,000 m, 19. v.-8. vi. 1961, N. R. Spencer (BISHOP).

***Monolepta cambodgia* Laboissière**

Monolepta cambodgia Lab., 1935, Ann. Ass. Nat. Levallois-Perret, 21 : 142 (Cambodia).

Luperodes latefasciata : Allard, 1889, Ann. Soc. Ent. France, 1889 : 310 (Pnomh-Penh).

Distribution : Cambodia, Laos.

Material examined. LAOS : Vientiane Prov., Vientiane, 1 ex., 31. v.-3. vi. 1960, light trap, S. Quate & L. Quate (BISHOP).

***Monolepta cavipennis* Baly Fig. 35a**

Monolepta cavipennis Baly, 1878, Cist. Ent., 2 : 459 (Assam ; BM).—Bryant, 1923, Ann. Mag. Nat. Hist., ser. 9, 12 : 146 (India).-Maulik, 1936, Fauna India, Galeruc. : 405 (Cochin-China, Hong-Kong).-Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B : 612 (China, Hainan, Vietnam).

Diacantha fasciata Allard, 1888, Ann. Soc. Ent. France, ser. 6, 8 : 318, 323 (Cambodia ; PARIS).
New synonym.

Luperodes albofasciata Allard, 1889, Ann. Soc. Ent. France, ser. 6, 9 : 310 (Annam ; PARIS, HAMBURG). New synonym.

Candezea trifasciata Jacoby, 1900, Mém. Soc. Ent. Belg., 7 : 139 (Siam, Tringanee, Cochin-China ; BM).-Maulik, 1936, Fauna India, Galeruc. : 405 (= *cavipennis*).

Monolepta siamensis Weise, 1915, Ergebn. 2. Dtsche Zentr.-Exp., Zool., 1 : 177 (new name for *Candezea trifasciata* Jacoby, 1900, nec Jacoby 1896, from Belgaum).

Candezea albofasciata : Laboissière, 1935, Ann. Ass. Nat. Levallois-Perret, 21 : 142 (Indo-China).
Distribution : India, Thailand, Cambodia, Laos, Vietnam, China, Hainan.

Material examined. THAILAND : Chanthaburi, 5 exs., 22. vii. 1962 ; Rayong, 12 exs., 27. vii. 1962 ; Uthaitani, 1 ex., 13. iv. 1963 (BANGKHEN) ; Nakhon Nayok Prov., Khao Yai Nat. Park, 5

exs., 5-6. vi. 1965, P. D. Ashlock; Saraburi Prov., Ban Muak Lek Nat. Park, 2 exs., 5. vi. 1965, P. D. Ashlock; Saraburi, 1 ex., 4. iv. 1963, Native collr; Pakchong, 100 m, NE of Bangkok, 3 exs., 3. xii. 1957, J. L. Gressitt; Sattahib, 1 m, 1 ex., 24. xi. 1957, J. L. Gressitt; Kampaengpet, 1 ex., 10. ix. 1963 (BISHOP); Khao Yai Nat. Park, 13 exs., 6. vi. 1965, S. Asahina, K. Morimoto & Y. Miyatake; Sikiew, 1 ex., 5. xi. 1966, sweeping of paddy field, K. Yasumatsu & K. Yano (KU); Khon Kaen, 1 ex., x-xii. 1972, M. Sato (EHIME); Khao Yai, 2 exs., 29-31. i. 1968, K. Baba (KIMOTO). LAOS: Umgeb. Vientiane, 7 exs., iii-vi. 1963, Umgeb. Pakse, 2 exs., 1963-64 (MUNCHEN); Vientiane Prov., Vientiane, 1 ex., 28. vii. 1965, 1 ex., 31. vii. 1965, 1 ex., 5. i. 1966, 2 exs., 6. vi. 1966, Native collr; Vientiane Prov., Dong Dok, 2 exs., 23. vii. 1965, 6 exs., 7. ix. 1965, 1 ex., 3. xi. 1965, 2 exs., 22. xi. 1965, 4 exs., 26. xi. 1965, 2 exs., 1. xii. 1965, 1 ex., 6. xii. 1965, Native collr; Vientiane Prov., Ban Van Eue, 6 exs., 15-31. 1965, 1 ex., 15. ii. 1966, 1 ex., 15. iii. 1966, 1 ex., 30. xi. 1966, 4 exs., 31. i. 1967, 1 ex., 15. ii. 1967, 1 ex., 15. viii. 1968, 4 exs., 31. xii. 1968, Native collr; Vientiane Prov., Gi Sion Vill., de Tha Ngone, 1 ex., 19-16. i. 1966, 20 exs., 14-31. x. 1966, Native collr; Khammouane Prov., Phon Tiou, 1 ex., 6. vii. 1965, 1 ex., 4. viii. 1965, 22 exs., 11. ix. 1965, 32 exs., 28. ix. 1965, Native collr; Borikhane Prov., Paksane, 1 ex., 7. viii. 1965, 9 exs., 31. viii. 1965, 4 exs., 9. ix. 1965, 2 exs., 15. xi. 1965, 3 exs., 24. xi. 1965, 3 exs., 29. xi. 1965, 2 exs., 28. xii. 1965, Native collr; Borikhane Prov., Pakkading, 1 ex., 14. vii. 1965, 2 exs., 3. viii. 1965, 4 exs., 31. viii. 1965, 1 ex., 29. iv. 1966, Native collr; Wapikhamthong Prov., Wapi, 28 exs., 15. ix. 1967, Native collr; Sedone Prov., Pakse, 14 exs., 31. v. 1967, Native collr; Sedone Prov., Paksong, 12 exs., 6. ix. 1965, Native collr; Sayaboury Prov., Sayaboury, 1 ex., 12. xii. 1965, Native collr; Tongphen, 1 ex., 30. x. 1966, Native collr; Nongtevdia, 2 exs., 27. vii. 1965, 5 exs., 6. viii. 1965, 11 exs., 30. viii. 1965, 4 exs., 18. xi. 1965, 2 exs., 23. xi. 1965, 3 exs., 2. xii. 1965, 2 exs., 7. xii. 1965, Native collr (BISHOP). VIETNAM: Ban Me Thuot, 500 m, 1 ex., 20-24. xii. 1960, L. W. Quate; M'Drak, E. of Ban Me Thuot, 4-600 m, 3 exs., 8-19. xii. 1960, C. M. Yoshimoto; Fyan, 900-1,200 m, 2 exs., 11. vii.-9. viii. 1961, N. R. Spencer; Karyu Danar, 200 m, 1 ex., 13-28. ii. 1961, N. R. Spencer; Nha Trang, 1 ex., 17-26. xi. 1960, C. M. Yoshimoto; 25 km SW of Peiku, 400m, 1 ex., 12. v. 1960, L. W. Quate (BISHOP).

***Monolepta dalatica* n. sp.** Fig. 44c

Head black, prothorax yellowish brown, elytron yellowish brown with margins somewhat widely blackish; antenna pitchy black; meso- and metathorax black, abdomen yellowish brown, with fifth segment partly or entirely blackish; legs yellowish brown with tibiae and tarsi black, and dorsal surface of anterior femur infuscate.

Head with vertex smooth, shining, sparsely impressed by minute punctures; interocular space distinctly wider than transverse diameter of single oculus, and interocular transverse impression distinct, frontal tubercle subtriangular and distinctly raised. Antenna slender, nearly $2/3$ as long as body length; first segment long, second shortest, nearly $2/5$ as long as first, third slightly longer than second, fourth twice as long as third, fourth to eighth subequal to each other in length and shape, ninth slightly shorter than eighth, tenth subequal to ninth, eleventh slightly longer than tenth and subequal to eighth but its apex pointed, Pronotum transverse, $1 \frac{2}{3}$ times as broad as long, anterior margin nearly straight, lateral margin slightly rounded, widest almost at middle, slightly narrowed anteriorly and posteriorly, basal margin strongly rounded posteriorly, dorsal surface convex, with a pair of shallow depressions laterally, sparsely impressed by fine punctures, and interstices of punctures smooth, shining. Scutellum subtriangular, finely granulate, impunctate. Elytron broader than prothorax, more strongly and closely punctate, and interstices of punctures smooth, shining.

Male: Unknown. **Female:** Fifth abdominal segment entire.

Length: 4.2-6.0 mm.

Holotype (BISHOP) : VIETNAM: Dalat, 6 km S., 1,400-1,500 m, 9. vi.-7. vii. 1961, N. R. Spencer. Paratypes : THAILAND : Khon Kaen, 2 exs., x-xii. 1972, M. Sato (EHIME). VIETNAM : Fyan, 900-1,000 m, 2 exs., 11. vii.-9. viii. 1961, N. R. Spencer ; Dalat, 1,500 m, 1 ex., 29. iv.-4. v. 1960, S. Quate (BISHOP, KIMOTO).

This new species somewhat resembles *Monolepta nigrobasalis* Jacoby, but differs in being the body length shorter, and having the head entirely black. The specimens from Thailand slightly differ from the Vietnam specimens, in having the dorsal surface of the anterior femur entirely brownish.

***Monolepta discoidalis* (Jacoby)**

Candezea discoidalis Jac., 1895, Stett. Ent. Ztg., 56 : 76 (Perak ; BM).

Monolepta (Candezea) discoidalis : Weise, 1924, Col. Cat. Junk, 78 : 175 (Perak).

Lomirana discoidalis : Wilcox, 1973, Col. Cat. Junk, Suppl., 78: 597 (Malaya).

Distribution : Thailand, Malaya.

Material examined. THAILAND: Banna, Chawang, nr. Nabon, 70 m, 5. ix. 1958, J. L. Gressitt (BISHOP).

***Monolepta duodecimmaculata* (Jacoby) Fig. 35b**

Luperodes duodecimmaculata Jac., 1889, Ann. Mus. Civ. Genova, 27 : 212 (Burma).

Monolepta duodecimmaculata : Maulik, 1936, Fauna India, Galeruc. : 403 (Burma).

Distribution : Burma, Laos.

Material examined. LAOS : Vientiane Prov., Ban Van Eue, 1 ex., 15-31. v. 1965, Native collr ; Savanakheth Prov., Savanakheth, 1 ex., 15. iv. 1967, Native collr ; K. Sedon, 1 ex., 18. iv. 1965, J. A. Rondon (BISHOP) ; Umgeb. Vientiane, 2 exs., iii-vi. 1963 ; Umgeb. Paklay, 1 ex., 1963 (MUNCHEN).

***Monolepta exigua* n. sp. Fig. 45b**

Generally yellowish brown, head black, elytron black with an elongate yellowish marking covering about 3/4 of length and 4/5 of width of disc and free from lateral and sutural margins, antenna pitchy black with basal three segments yellowish brown, ventral surfaces with meso- and metathorax black, abdomen with basal part of first segment and apical part of fifth segment black ; legs with tibiae and tarsi generally pitchy black.

Head with vertex smooth, shining, sparsely impressed by minute punctures ; interocular space distinctly wider than transverse diameter of single oculus, and interocular transverse impression deep, frontal tubercle subtriangular and distinctly raised. Antenna slender, nearly 2/3 as long as body length ; first segment long, second short, nearly 2/5 as long as first, third subequal to second in length but more slender, fourth 2 1/2 times as long as third, fifth slightly longer than fourth, fifth to seventh subequal to each other in length and shape, eighth slightly shorter than seventh, and eighth to tenth subequal to each other in length and shape, eleventh longer than tenth and subequal to seventh in length but its apex pointed. Pronotum transverse, 1 1/2 times as broad as long, anterior margin nearly straight, lateral margin slightly rounded, widest at 1/2 from anterior margin, and slightly narrowed anteriorly and more strongly so posteriorly, basal margin distinctly rounded posteriorly, dorsal surface convex side to side, without any trace of depression laterally, sparsely impressed by fine punctures, and interstices of punctures smooth, shining. Scutellum subtriangular, smooth, shining, impunctate. Elytron broader than prothorax, more strongly and closely punctate, and interstices of punctures smooth, shining.

Male : Fifth abdominal segment trilobed, median lobe longitudinally sulcate. **Female** : Fifth abdominal segment entire.

Length : 2.0 mm.

Holotype (BISHOP) : VIETNAM : Dalat, 1,500 m, 26 - 27. ix. 1960, C. M. Yoshimoto. Paratopotypes : 4 exs., same data as the holotype (BISHOP, KIMOTO). Paratypes : VIETNAM : Dalat, 1,550 m, 1 ex., 11. ix. 1960, J. L. Gressitt ; 6 km S. of Dalat, 2 exs., 12. iv. 1960, J. L. Gressitt ; 15 km NE of Dalat, 1,850 m, 1 ex., 5. v. 1960, L. W. Quate ; 25 km SW of Pleiku, 400 m, 1 ex., 12. v. 1960, L. W. Quate (BISHOP).

This new species somewhat resembles *Monolepta quatei* Kimoto, but differs in being the body length shorter, and having the head entirely black.

***Monolepta flavovittata* Chen** Fig. 33b

Monolepta flavovittata Chen, 1942, Notes d'Ent. Chinoise, 9 : 61 (China : Hupeh).-Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B: 614 (China).

Distribution : Vietnam, China.

Material examined. VIETNAM : Nha Trang, 2 exs., 17-26. xi. 1960, C. M. Yoshimoto ; Dailanh, N. of Nha Trang, 3 exs., 29. xi.-5. xii. 1960, C. M. Yoshimoto ; Ninh Hoa, N. of Nha Trang, 1 ex., 28. xi. 1960, C. M. Yoshimoto ; 15-35 km, NW of Phan Rang, 1 ex., 8-16. xi. 1960, C. M. Yoshimoto (BISHOP).

***Monolepta fyanica* n. sp.** Fig. 40b

Generally yellowish brown ; elytron with basal and apical margins black ; head with narrow blackish area behind eye ; antenna pitchy black with basal three segments brownish ; ventral surfaces with metathorax black.

Head with vertex smooth, shining, sparsely impressed by minute punctures, interocular space



Fig. 36. a, *Monolepta semiapicalis* n. sp. ; b, *M. semiluperina* n. sp. ; c, *M. apicipennis* n. sp.

distinctly wider than transverse diameter of single oculus, and interocular transverse impression distinct, frontal tubercle subtriangular and distinctly raised. Antenna slender, nearly $2/3$ as long as body length ; first segment long, second shortest, nearly $1/3$ as long as first, third as long as second but slenderer, fourth nearly three times as long as third, fifth slightly longer than fourth, sixth to ninth subequal to each other in length and shape, tenth slightly shorter than ninth in length, eleventh slightly longer than tenth and subequal to ninth in length but its apex pointed. Pronotum transverse, $1\frac{1}{2}$ times as broad as long, anterior margin nearly straight, lateral margin slightly rounded, widest at $1/3$ from anterior margin and slightly narrowed anteriorly and more strongly so posteriorly, basal margin rounded posteriorly, dorsal surface convex, with a pair of deep transverse depressions which are united at middle, sparsely impressed by fine punctures, and interstices of punctures smooth and shining. Scutellum subtriangular, finely granulate, impunctate. Elytron broader than prothorax, more strongly and closely punctate, and interstices of punctures smooth and shining.

Male : Unknown. **Female** : Fifth abdominal segment entire.

Length: 3.3-4.1 mm.

Holotype (BISHOP) : VIETNAM : Fyan, 900-1,200 m, 11. vii.-9. viii. 1961, N. R. Spencer. Paratopotypes : 3 exs., same data as the holotype (BISHOP, KIMOTO).

This new species resembles *Monolepta banmethuotica* Kimoto, but differs by the shorter body and having the ventral surfaces with metathorax blackish.

***Monolepta gisionica* n. sp.** Fig. 37c

Head black, prothorax yellowish brown, elytron black with a transverse postmedian band together with its apex yellowish brown, antenna pitchy brown with second and third segments ochraceous, ventral surfaces reddish brown with meso- and metathorax pitchy black, legs pitchy brown to black.

Head with vertex somewhat wrinkled, sparsely impressed by fine punctures, interocular space distinctly wider than transverse diameter of single oculus, and interocular transverse impression shallow, frontal tubercle subtriangular and slightly raised. Antenna somewhat robust, nearly $2/3$ as long as body length ; first segment long, second shortest, nearly $1/3$ times as long as first, third slightly longer than second, fourth three times as long as third, fifth slightly shorter than fourth, sixth slightly shorter than fifth and sixth to ninth subequal to each other in length and shape, tenth slightly shorter than ninth, eleventh slightly longer than tenth and subequal to fourth in length but its apex pointed. Pronotum transverse, $1\frac{3}{4}$ times as broad as long, anterior margin nearly straight, lateral margin slightly rounded, widest at slightly before basal margin and narrowed anteriorly, basal margin strongly rounded posteriorly, dorsal surface convex side to side, without any trace of depression laterally, rather closely impressed by fine punctures, and interstices of punctures smooth, shining. Scutellum subtriangular, finely granulate, impunctate. Elytron broader than prothorax, more strongly and closely punctate, and interstices of punctures finely granulate.

Male : Unknown. **Female** : Fifth abdominal segment entire.

Length : 5.4 mm.

Holotype (BISHOP) : LAOS : Vientiane Prov., Gision Vill., de Tha Ngone, 2. i. 1966, Native collr. Paratopotypes : 2 exs., same data as the holotype (BISHOP, KIMOTO). Paratypes: LAOS : Vientiane Prov., Ban Van Eue, 1 ex., **I-15. v.** 1965, J. A. Rondon, 1 ex., 15-31. v. 1965, Native collr (BISHOP).

This new species somewhat resembles *Monolepta sublata* Gressitt & Kimoto, but differs in having antenna robuster, pronotum widest at slightly before the basal margin, and the head generally blackish.

***Monolepta hageni* Weise**

Monolepta basalis Jacoby, 1884, Notes Leyden Mus., 6 : 55 (nec Harold, 1880) (Sumatra).

Monolepta hageni Weise, 1916, Dtsche Ent. Z., 1916 : 40 (new name for ***Monolepta basalis*** Jacoby, nec Harold) (Sumatra).—Chûjô, 1964, Nature and Life in SE Asia, Kyoto, 3 : 293 (Thailand : Naborn).

Distribution : Thailand, Sumatra.

Material examined. THAILAND : Trang Prov., Khaophappa, Khaochang, ZOO-400 m, 1 ex., 10. i. 1964, G. A. Samuelson ; Banna, Chawang, nr. Nabon, 70 m, 1 ex., 5. ix. 1958, T. C. Maa ; Banna, Nakhon, 108 m, 3 exs., 5-10. v. 1958, T. C. Maa (BISHOP).

***Monolepta hieroglyphica* (Motschulsky)**

Luperodes hieroglyphicus Motsch., 1858, Etud. Ent., 7: 104 (Indes or.).

Monolepta elegantula Boheman, 1859, Eugenies Resa, 2 : 183 (Malacca).—Jacoby, 1889, Ann. Mus. Civ. Genova, 27 : 226 (Malacca).

Monolepta quadrigutta : Fairmaire, 1887, Rev. d'Ent., 6 : 333 (China).—Yuasa, 1936, Rep. First Sci. Exp. Manchoukuo, 5, 1, 10 (51) : 19, pl. 2, Fig. 6 (Johol).

Monolepta biarcuata Weise, 1889, Horae Soc. Ent. Ross., 23 : 632 (C. Mongolia).

Monolepta hieroglyphica ab. ***simplex*** Weise, 1913, Phil. J. Sci., ser. D, 8 : 229 (Philippines) ; 1922, Tijdschr. Ent., 65 : 104 (Sumatra).—Ogloblin, 1936, Fauna URSS, 26(1) : 318, 319 (Philippines).

Monolepta hieroglyphica : Weise, 1922, Tijdschr. Ent., 65 : 104 (Sumatra).—Maulik, 1936, Fauna India, Galeruc. : 380, 411, fig. 100 (Burma, Singapore, Sumatra, Philippines, China).—Ogloblin, 1936, Fauna URSS, 26, 1 : 315, 318, 434 (Tonkin, Burma, Sumatra, Philippines).—Chûjô, 1962, Phil. J. Sci., 91 (1-2) : 113, 129 (Formosa).

Monolepta hieroglyphica ab. ***biarcuata*** : Weise, 1922, Tijdschr. Ent., 65: 104 (China).

Monolepta hieroglyphica biarcuata : Ogloblin, 1936, Fauna URSS, 26(1) : 315, 318, 319, 434, fig. 131 (S. Ussuri Distr., Manchuria, Korea, Japan, Formosa, China, Ordos, Alachan).

Monolepta hieroglyphica : Chûjô, 1964, Nature and Life in SE Asia, Kyoto, 3 : 293 (Thailand).—Kimoto, 1972, Tijdschr. Ent., 93 (4) : 145 (Annam).

Distribution : Burma, Thailand, Cambodia, Laos, Vietnam, Malaya, China, Taiwan, Mongolia, E. Siberia,, Korea, Philippines, Sumatra.

Material examined. THAILAND : Trang Prov., Khaophappa, Khaochang, 200-400 m, 1 ex., 30-31. xii. 1963, G. A. Samuelson ; Nakorn-nayok, 1 ex., 14. v. 1963, Native collr ; Phu Kae, 1 ex., 17. v. 1963, Native collr ; Chiangmai Prov., Chiang Dao, 450 m, 1 ex., 5-11.1958, T. C. Maa (BISHOP) ; Kao Yai, 1 ex., 29-31. i. 1968, K. Baba (KIMOTO). LAOS : Vientiane Prov, Ban Van Eue, 1 ex., 15. i. 1967, Native collr ; Luang Prabang, 300 m, 1 ex., 4-5. vi. 1960, L. W. Quate ; Sedone Prov, Pakse, 1 ex., 21. v. 1965, P. D. Ashlock (BISHOP) ; Umgeb. Paklay, 1 ex., 1963 (MUNCHE). VIETNAM : Mt. Lang Bian, 14 exs., 19. v.-8. vi. 1961, N. R. Spencer ; 17 km NE of Dalat, 2,000 m, 1 ex., 3. v. 1960, L. W. Quate ; Karyu Danar, 200 m, 2 exs., 13-28. ii. 1961, N. R. Spencer ; Fyan, 1,200 m, 1 ex., 11. vii.-9. viii. 1961, N. R. Spencer ; M'Drak, E. of Ban Me Thuot, 4-600 m, 1 ex., 8-19. ii. 1960, C. M. Yoshimoto (BISHOP).

***Monolepta langbianica* n. sp. Fig. 37b**

Generally yellowish brown, head and prothorax generally black, in some specimen middle of vertex pitchy black.

Head with vertex smooth, shining, sparsely impressed by minute punctures, interocular space distinctly wider than transverse diameter of single oculus, and interocular transverse impression deeper, frontal tubercle subtriangular and distinctly raised. Antenna slender, nearly $2/3$ as long as body length; first segment long, second shortest, nearly $1/3$ as long as first, third $1\frac{1}{2}$ times as long as second, fourth $1\frac{1}{2}$ times as long as third, fifth slightly longer than fourth, sixth to eighth subequal to each other in length and shape, ninth slightly shorter than eighth, tenth subequal to ninth in length and shape, eleventh slightly longer than tenth and subequal to eighth in length but its apex pointed. Pronotum transverse, $1\frac{1}{2}$ times as broad as long, anterior margin nearly straight, lateral margin slightly rounded, widest at $1/2$ from anterior margin, slightly narrowed anteriorly and more strongly so posteriorly, basal margin strongly rounded posteriorly, dorsal surface convex, with a pair of deep oblique depressions laterally, sparsely impressed by distinct punctures, and interstices of punctures smooth and shining. Scutellum subtriangular, smooth, shining, impunctate. Elytron broader than prothorax, more strongly and closely punctate, and interstices of punctures smooth, shining.

Male : Fifth abdominal segment trilobed, median lobe generally fiat. **Female** : Fifth abdominal segment entire.

Length : 4.2-4.8 mm.

Holotype (BISHOP) : VIETNAM : Mt. Lang Bian, 1,500-2,000 m, 19. v.-8. vi. 1961, N. R. Spencer.

Paratopotypes : 6 exs., same data as the holotype (BISHOP, KIMOTO).

This new species resembles *Monolepta bicavipennis* Chen, from China, but differs in having the antenna and the legs entirely yellowish brown, and in the male elytron without any cavity.

***Monolepta laosensis* n. sp.** Fig. 42c

Generally reddish brown, elytron black with basal and subapical markings yellowish brown, and basal marking widely separated from basal margin, antenna entirely pitchy black, legs generally pitchy black with ventral surface of anterior femur reddish brown.

Head with vertex somewhat wrinkled, sparsely impressed by minute punctures; interocular

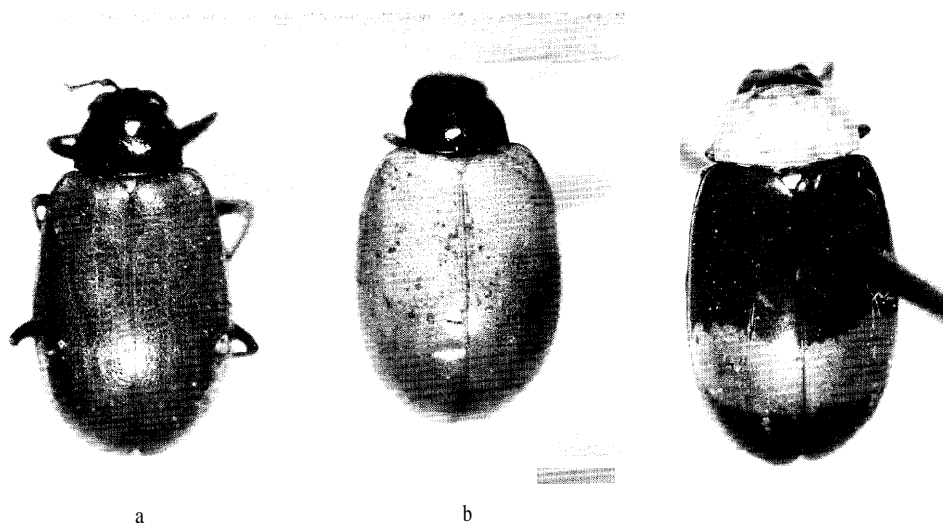


Fig. 37. a, *Monolepta subflavipennis* n. sp. ; b, *M. langbianica* n. sp. ; c, *M. gisionica* n. sp.

space distinctly wider than transverse diameter of single oculus, and interocular transverse impression distinct, frontal tubercle subtriangular and distinctly raised. Antenna slender, nearly $2/3$ as long as length of body ; first segment long, second shortest, nearly $1/3$ as long as first, third twice as long as second, fourth $1\frac{1}{2}$ times as long as third, fifth slightly longer than fourth, fifth to ninth subequal to each other in length and shape, tenth slightly shorter than ninth, eleventh slightly longer than tenth and subequal to ninth in length but its apex pointed. Pronotum transverse $1\frac{2}{3}$ times as broad as long, anterior margin nearly straight, lateral margin slightly rounded, widest at $1/3$ from anterior margin, and slightly narrowed anteriorly and more strongly so posteriorly, basal margin strongly rounded posteriorly, dorsal surface convex, with a pair of shallow oblique depressions laterally, sparsely impressed by fine punctures, and interstices of punctures smooth, shining. Scutellum subtriangular, smooth, shining, impunctate. Elytron broader than prothorax, more strongly and closely punctate, and interstices of punctures smooth, shining.

Male : Fifth abdominal segment trilobed, median lobe generally flat. Female : Fifth abdominal segment entire.

Length : 5.3—6.0 mm.

Holotype (BISHOP) : LAOS : Sayaboury Prov., Sayaboury, 1 ex., 15. iv. 1965, J. L. Gressitt. Paratopotype : 1 ex., same data as the holotype (KIMOTO). Paratypes : Vientiane Prov., Ban Van Eue, 1 ex., 1-15. v. 1965, J. A. Rondon, 1 ex., 15-31. iv. 1965, 1 ex., 15. viii. 1965, 1 ex., 31. xii. 1965, 2 exs., 16. iii. 1966, 1 ex., 15. xi. 1966, 1 ex., 30. viii. 1967, Native collr ; Sayaboury Prov., Sayaboury, 1 ex., 16. iv. 1965, J. L. Gressitt ; Sedon Prov., Paksong, 1 ex., 18. v. 1965, P. D. Ashlock (BISHOP).

This new species somewhat resembles *Monolepta quadrinotata* Kimoto, but differs in being the body length longer, and having the head entirely reddish brown.

***Monolepta lauta* Gressitt & Kimoto**

Monolepta lauta Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B: 604, 617, fig. (Hainan ; CAS).

Distribution : Laos, Vietnam, Hainan.

Material examined. LAOS : Vientiane Prov., Gi Sion Vill., de Tha Ngone, 2 exs., 26. xii. 1965, Native collr ; Ban Van Eue, 20 km E. of Phou-kow-kuei, 1 ex., 15-31. v. 1965, J. A. Rondon (BISHOP). VIETNAM : Pleiku, 700 m, 1 ex., 8-14. v. 1960, L. W. Quate ; 20 km N. of Pleiku, 650 m, 3 exs., 9. v. 1960, S. Quate & L. Quate ; 25 km SW of Pleiku, 400 m, 1 ex., 12. v. 1960, L. W. Quate ; Blao (Balao), 500 m, 1 ex., 14-21. x. 1960, C. M. Yoshimoto (BISHOP).

***Monolepta leechi* Jacoby Fig. 33a**

Monolepta leechi Jac., 1890, Entomologist, 23 : 21.6 (China; MCZ).—Gressitt & Kimoto, 1963. Pac.

Ins. Mon., 1B: 618 (S. China).—Kimoto, 1976, Ent. Rev. Japan, 29 : 5 (Taiwan).

Distribution : Thailand, Laos, Vietnam, S. China, Taiwan.

Material examined. THAILAND : Chiangmai Prov., Doi Suthep, 1,000 m, 1 ex., 18. vi. 1965, K. Morimoto ; Fang, 2 exs., 13-14. vi. 1965, K. Morimoto (KU). LASO : Vientiane Prov., Ban Van Eue, 1 ex., 31. xii. 1968, Native collr ; Vientiane Prov., Gi Sion Vill., de Tha Ngone, 1 ex., 2. i. 1966, Native collr ; Khammouane Prov., Phon Tiou, 1 ex., 8. vi. 1965, Native collr (BISHOP). VIETNAM : Dalat, 1,500 m, 26-27. ix. 1960, C. M. Yoshimoto (BISHOP).

***Monolepta longitarsis* Jacoby**

Monolepta longitarsis Jac., 1896, Ann. Soc. Ent. Belg., 40 : 297 (Bombay: Belgaum ; BM).

-Maulik, 1936, Fauna India, Galeruc. : 377, 386, figs (India).—Chûjô, 1964, Nature and Life in SE Asia, Kyoto, 3 : 294 (Thailand : Chiang Mai, Doi Suthep).

Distribution : India, Thailand, Vietnam.

Material examined. THAILAND : Chiang Mai Prov., Mak Klang, 340 m, 1 ex., 11. vi. 1965, P. D. Ashlock (BISHOP) ; Chiang Mai Prov., Doi Suthep, 1,000 m, 18. vi. 1965, Y. Miyatake ; Chiang Mai Prov., Chiang Dao, 15. vi. 1965, 13 exs., K. Morimoto & Y. Miyatake (KU). VIETNAM : Fyan, 900-1,200 m, 11. vii.-9. vii. 1961, 10 exs., N. R. Spencer; Dalat, 6 km S., 1,400-1,500 m, 4 exs., 9. vi.-7. vii. 1961, N. R. Spencer; Ban Me Thuot, 500 m, 1 ex., 20-24. xii. 1960, N. R. Spencer (BISHOP).

***Monolepta luperina* Weise**

Monolepta luperina Weise, 1922, Tijdschr. Ent., 65 : 103 (Tonkin ; STOCKHOLM).

Distribution : Vietnam.

Material examined. VIETNAM : 15 km from Dalat, 1,500 m, 1 ex., 29. iv.-5. v. 1960, S. Quate (BISHOP).

***Monolepta marginipennis* (Jacoby)** Fig. 34b

Candezea marginipennis Jac., 1892, Ann. Mus. Civ. Genova, 32 : 979 (Bumra ; BM).

Monolepta marginipennis : Maulik, 1936, Fauna India, Galeruc. : 435 (Bumra).

Distribution : Burma, Thailand, Laos, Vietnam.

Material examined. THAILAND : Chiangmai Prov., Doi Suthep, 1 ex., 8. vi. 1965, P. D. Ashlock (BISHOP) ; Chiangmai Prov., Doi Suthep, 1,000 m, 10 exs., 18. vi. 1965, Y. Miyatake (KU). LAOS : Sedon Prov., Paksong, 9 exs., 17-18. v. 1965, light trap, P. D. Ashlock (BISHOP). VIETNAM : Fyan, 900-1,200 m, 82 exs., 11. vii.-9. viii. 1961, N. R. Spencer ; Dalat, 1,500 m, 1 ex., 26-27. ix. 1960, C. M. Yoshimoto ; Dalat, 6 km S., 1,400-1,500 m, 5 exs., 9. vi.-7. vii. 1961, N. R. Spencer ; Dilinh (Djiring), 3 exs., 27. ix.-14. x. 1960, C. M. Yoshimoto (BISHOP).

***Monolepta miyatakei* n. sp.** Fig. 40a

Generally yellowish brown ; elytron with basal, lateral, sutural and apical margins narrowly black ; head with vertex generally black ; antenna pitchy black with basal three segments brownish ; legs with tibiae and tarsi blackish ; abdomen with apex of pygidium blackish.

Head with vertex distinctly but not closely punctate, interocular space subequal to transverse diameter of single oculus and interocular transverse impression distinct, frontal tubercle subtriangular and distinctly raised. Antenna slender, slightly longer than body length ; first segment long, second shortest nearly 1/3 as long as first, third subequal to second in length, fourth nearly three times as long as third, fifth slightly longer than fourth, fifth to seventh subequal to each other in length and shape, eighth slightly shorter than seventh, eighth to tenth subequal to each other in length and shape, but eleventh subequal to tenth in length but its apex pointed. Pronotum transverse, 1 1/2 times as broad as long, anterior margin nearly straight, lateral margin distinctly rounded, widest almost at middle and distinctly narrowed anteriorly and posteriorly, basal margin strongly rounded posteriorly, dorsal surface convex, with a pair of shallow depressions laterally, and rather closely impressed by distinct punctures. Scutellum subtriangular, impunctate, finely granulate at middle. Elytron broader than prothorax, more strongly and closely punctate.

Male : Fifth abdominal segment trilobed, median lobe feebly depressed at middle. **Female** : Fifth abdominal segment entire.

Length :6.0—6.7 mm.

Holotype (Type No, 2703, Kyushu Univ.) : THAILAND : Khao Yai Nat. Park, 6. vi. 1963, Y. Miyatake. Paratopotype : 1 ex., same data as the holotype (KIMOTO). Paratypes : THAILAND : Songkhla, 1 ex., 28. vi. 1965, Y. Miyatake (KU) ; Khon Kaen, 1 ex., 24. vii. 1980, S. Azuma (RU) ; Uthaithani, 8 exs., 13. iv. 1965 (BANGKHEN).

This new species somewhat resembles *Monolepta nigrobasalis* Jacoby, but differs in having the middle of vertex blackish and the ventral surfaces entirely brownish.

***Monolepta nigrifrons* (Allard), new combination** Fig. 38c

Luuperodes nigrifrons All., 1889, Ann. Soc. Ent. France, ser. 6, 9 : 310 (Annam ; PARIS).

Nadrana facialis Laboissière, 1936, Ann. Soc. Ent. France, 105 : 262 (Tonkin ; HAMBURG). New synonym.

Distribution : Thailand, Laos, Vietnam.

The coloration of head is somewhat variable. In some specimens vertex and the interstices of antennae are entirely brownish instead of blackish.

Material examined. THAILAND : Chiangmai Prov., Doi Suthep, 1 ex., 14. xi. 1957, J. L. Gressitt, 1 ex., 28-31. iii. 1958, T. C. Maa ; Chiangmai Prov., Chieng Dao, 1 ex., 5-11. iv. 1958, T. C. Maa (BISHOP) ; Chiangmai Prov., Mae Sa Water Fall, 1 ex., 16. vi. 1965, Y. Miyatake (KU) ; Chanthaburi, 1 ex., 22. vii. 1962 (BANGKHEN). LAOS : Wapikhamthong Prov., Wapi, 1 ex., 15. ix. 1967, Native collr ; Vientiane Prov., Ban Van Eue, 1 ex., 31. xi. 1965, Native collr (BISHOP). VIETNAM : Fyan, 1,200 m, 8 exs., 11. vii.-9. viii. 1961, N. R. Spencer ; Ban Me Thuot, 500 m, 2 exs., 20-24. xii. 1960, C. M. Yoshimoto ; Dak Song, 76 km SW of Ban Me Thuot, 870 m, 1 ex., 19-21. v. 1960, S. Quate & L. Quate ; Blao (Balao), 500 m, 1 ex., 14-21. x. 1960, C. M. Yoshimoto ; Dilinh (Djiring), 1,200 m, 1 ex., 22-28. iv. 1960, C. M. Yoshimoto ; 17 km S. of Dilinh, 1,300 m, 2 exs., 6-12. x. 1960, C. M. Yoshimoto ; Karyu Danar, 200 m, 2 exs., 13-28. ii. 1961, N. R. Spencer (BISHOP).

***Monolepta nigripes* (Olivier)**

Galeruca nigripes Oliv., 1808, Entomologie, 6 : 648, pl. 4, fig. 58 (Bengal).

Monolepta concolor Boheman, 1859, Eugenes Resa, 2 : 182 (Manila).-Weise, 1922, Tijdschr. Ent., 65 : 105 (Java, Borneo).-Maulik, 1936, Fauna India, Galeruc. : 414 (= *nigripes*).

Ochralea nigricornis Clark, 1865, Ann. Mag. Nat. Hist., ser. 3, 15 : 144 (Penang ; BM).-Weise, 1924, Col. Cat. Junk, 78 : 167 (= *nigripes*).

Ochralea nigripes : Harold, 1880, Stett. Ent. Ztg., 41 : 147 (India, Java, Manila, Sumatra). —Jacoby, 1889, Ann. Mus. Civ. Genova, 27 : 230 (Tenasserim).

Ochralea fulva Baly, 1886, Trans. Ent. Soc. London, 1886 : 39 (Himalayas ; Burma).-Maulik, 1936, Fauna India, Galeruc. : 414 (= *nigripes*).

Monolepta concolor ab. *nigripes* : Weise, 1922, Tijdschr. Ent., 65 : 105 (Philippines, Sunda Is., Hinterindien, Tonkin).

Ochralea concolor : Laboissière, 1932, Mém. Mus. Hist. Nat. Belg., hors ser., 4(4) : 179 (Java).

Monolepta nigripes : Maulik, 1936, Fauna India, Galeruc. : 414 (Himalayas, India, Burma, Ceylon, Siam, Malaya, Celebes, Borneo, Philipines).—Chûjô, 1964, Nature and Life in SE Asia, Kyoto, 3 : 294 (Cambodia).-Kimoto, 1972, Tijdschr. Ent., 93(4) : 145 (Siam, Burma).

Distribution : India, Ceylon, Burma, Thailand, Cambodia, Laos, Vietnam, Malaya, Celebes, Borneo, Java, Sumatra, Philippines.

Material examined. THAILAND : Tak, 26 exs., 25. v. 1959, 5 exs., 29. v. 1959, 4 exs., 30. v. 1959,

5 exs., 31. v. 1959, 1 ex., 9. vi. 1959, 1 ex., 11. vi. 1959, 7 exs., 12. vi. 1959 ; Trang, 7 exs., 1-18. iv. 1960 ; Uthaithani, 5 exs., 13. iv. 1963 ; Nakhon Rathchiasima, 3 exs., 22. vi. 1958 ; Chanthaburi, 2 exs., 31. v.-4. iv. 1959 ; Chiangmai, 2,000 ft., 1 ex., 16. iv. 1958 (BANGKHEN) ; Chiangmai Prov., Doi Suthep, 900 - m, 1 ex., 14. xi. 1957, J. L. Gressitt ; Banna Chawang, nr. Nabon, 70 m, 6. ix. 1958, J. L. Gressitt (BISHOP) ; Khao Chong, nr. Trung, 4 exs., 25. vi. 1965, Y. Miyatake ; Kor Hong, 1 ex., 23. vi. 1965, K. Morimoto ; Song Khla, 1 ex., 22. vi. 1965, Y. Miyatake (KU) ; Khon Kaen, 1 ex., 24. vii. 1980, S. Azuma (RU). CAMBODIA : Phnom-Antiang, nr. Sisophon, 1 ex., 20. xi. 1962, T. Shibata (OMNH). LAOS : Umgeb. Vientiane, 38 exs., iii-vi. 1963 (MUNCHEN) ; Khammouane Prov., Phon Tiou, 5 exs., iii. 1965, 1 ex., 1-15. iv. 1965, J. L. Gressitt, 13 exs., 30. iv. 1965, 1 ex., 17. v. 1965, 2 exs., 6. vii. 1965, 1 ex., 4. viii. 1965, Native collr ; Borikhane Prov., Pakkading, 2 exs., 21. iv. 1965, 1 ex., x. 1965, J. L. Gressitt, 1 ex., 5. iv. 1965, 6 exs., 22. iv. 1965, 12 exs., 23. iv. 1965, 3 exs., 17. v. 1965, 2 exs., 15. vi. 1965, Native collr ; Ponhom, N. of Pakkading, 2 exs., 20. iv. 1965, J. L. Gressitt ; Namkading, nr. Pakkading, 1 ex., 21. iv. 1965, J. L. Gressitt ; Sedon Prov., Pakse, 3 exs., iii. 1965, J. A. Rondon, 1 ex., 31. iv. 1965, 1 ex., 16. v. 1965, 16 exs., 31. v. 1965, 1 ex., 5. vii. 1965, Native collr ; Sedon Prov., Paksong, 1 ex., 26. vii. 1965, Native collr ; Vientiane Prov., Vientiane, 3 exs., 21. iv. 1965, J. A. Rondon, 2 exs., iii. 1966, J. Sedlacek, 7 exs., 22. vii. 1965, 2 exs., 30. iv. 1966, 1 ex., 15. v. 1967, Native collr ; Vientiane Prov., Ban Van Eue, 4 exs., 15-31. iv. 1965, 2 exs., 31. vii. 1965, Native collr ; Vientiane Prov., Phou Kou Khoui, 1 ex., 1-15. iv. 1965, 1 ex., 17. iv. 1965, J. L. Gressitt, 1 ex., 15. vi. 1966, Native collr ; Wapikhamthong Prov., Khong Sedone, 2 exs., 30. iv. 1965, 2 exs., 16. v. 1965, 2 exs., 30. v. 1965, Native collr ; Sayaboury Prov., Sayaboury, 1 ex., 5. v. 1966, 1 ex., 20. v. 1966, Native collr ; Savanakheth Prov., Savanakheth, 1 ex., 5. vii. 1965, Native collr ; Ile de Khong, 15 exs., 17. iv. 1965, J. L. Gressitt, 2 exs., 6. ii. 1965, 1 ex., 20. vii. 1965, 1 ex., 7. ix. 1965, Native collr (BISHOP). VIETNAM : 25 km SE of Pleiku, 400 m, 1 ex., 12. v. 1960, L. W. Quate (BISHOP).

***Monolepta nigrobasalis* Jacoby**

Monolepta nigrobasalis Jacoby, 1903, Ann. Soc. Ent. Belg., 47 : 127 (Nilgiri Hills).-Maulik, 1936,

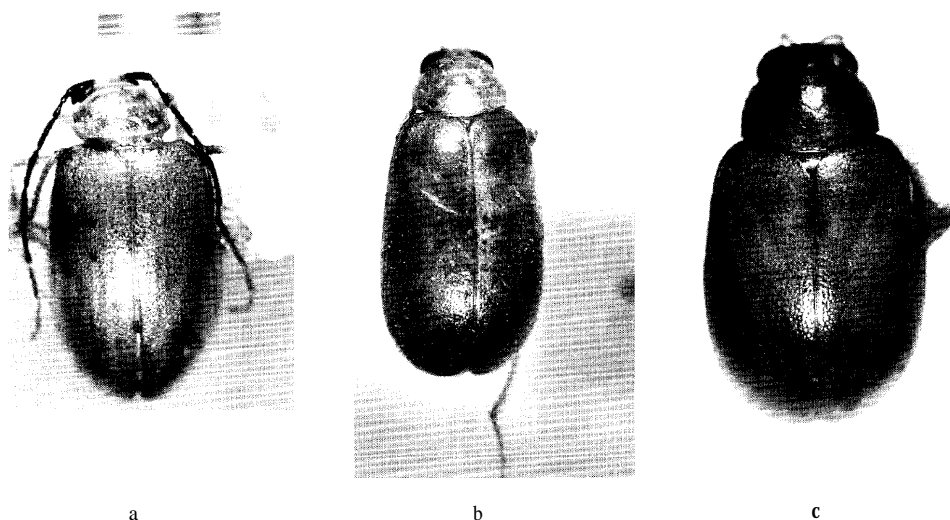


Fig. 38. a, *Monolepta pallidulella* n. sp. ; b, *M. rubrobasalis* n. sp. ; c, *M. nigrifrons* (Allard).

Fauna India, Galeruc. : 425, 442, fig. (India).—Chôjô, 1961, Nature and Life in SE Asia, Kyoto, 1 : 351 (Thailand : Chieng Mai); 1964, *ibid.*, 3 : 295 (Chieng Mai).

Damais humeralis Jacoby, 1903, Ann. Soc. Ent. Belg., 47 : 119 (Nilgiri Hills; BM).—Maulik, 1936, Fauna India, Galeruc. : 442 (= *nigrobasis*).

Distribution : India, Thailand.

Material examined. THAILAND : Chiengmai Prov., Chiengmai, 3 exs., 11. iv. 1966, J. Sedlacek ; Chiengmai Prov., Doi Suthep, 10 exs., 28. iii.-5. iv. 1958, T. C. Maa ; Chiengmai Prov., Doi Pui, 1 ex., 2. iv. 1958, T. C. Maa ; 50 km West of Tak, 900 m, 2 exs., 7-8. iv. 1966, J. Sedlacek (BISHOP) ; Khon Kaen, 1 ex., 20. xii. 1979, S. Azuma (RU).

***Monolepta nigrotibialis* (Allard), new combination**

Luperodes nigrotibialis All., 1889, Ann. Soc. Ent. France, ser. 6, 9 : 311 (Cambodia ; PARIS).

Neolepta nigro tibialis : Laboissière, 1935, Ann. Ass. Nat. Levallois-Perret, 21 : 143 (genus).

Distribution : Laos, Vietnam.

Material examined. LAOS : Vientiane Prov., Ban Van Eue, 2 exs., 31. xii. 1968, Native collr ; Wapikhamthong Prov., Khong Sedon, 1 ex., 30. iv. 1965, Native collr (BISHOP).

***Monolepta orientalis* Jacoby**

Monolepta orientalis Jac., 1889, Ann. Mus. Civ. Genova, 27 : 227 (Burma ; GENOVA).—Duvivier, 1892, Ann. Soc. Ent. Belg., 36 : 444 (Mandar).—Maulik, 1936, Fauna India, Galeruc. : 407 (India, Burma).—Kimoto, 1970, Spec. Bull. Lep. Soc. Japan, 4 : 171 (Nepal).—Kimoto & Takizawa, 1972, Kontyû, Tokyo, 40 (4) : 220 (Nepal) ; 1983, Bull. Natn. Sci. Mus. Tokyo, ser. A, 9 (2) : 86 (Nepal).

Monolepta konbirensis Duvivier, 1891, C. R. Soc. Ent. Belg., 35 : 47 (Konbir-Nowatoli).—Maulik, 1936, Fauna India, Galeruc. : 408 (= *orientalis*).

Monolepta orientalis* var. *konbirensis : Jacoby, 1896, Ann. Soc. Ent. Belg., 40 : 294 (India).

Distribution : India, Nepal, Burma, Thailand.

Material examined. THAILAND: Nakorn-nayok, 3 exs., 14. v. 1963, Native collr (BISHOP).

***Monolepta pallida* (Jacoby)**

Ochralea pallida Jac., 1892, Ann. Mus. Civ. Genova, 32 : 978 (Burma ; BM).

Monolepta pallida : Maulik, 1936, Fauna India, Galeruc. : 398 (Burma).

Distribution : Burma, Thailand, Laos, Vietnam.

Material examined. THAILAND : Chiengmai Prov., Chieng Dao, 1 ex., 5-11. iv. 1958, J. L. Gressitt ; Khao Yai, 1 ex., 12. ii. 1964, Native collr (BISHOP) ; Chiengmai Prov., Chieng Dao, 1 ex., 23. iv. 1973, Y. Yoshiyasu ; Khao Yai Nat. Park, 1 ex., 6. vi. 1965, Y. Miyatake (KU). LAOS : Attopeu Prov., Houei Kong, 1 ex., 15. iv. 1965, J. A. Rondon, 1 ex., 16. v. 1965, 4 exs., 31. v. 1965, 3 exs., 20. vii. 1965, 1 ex., 4. ix. 1965, Native collr ; Sedon Prov., Paksong, 1 ex., 18. v. 1965, P. D. Ashlock, 1 ex., 7. vi. 1965, Native collr ; Sedon Prov., Pakse, 1 ex., 15. v. 1965, P. D. Ashlock, 1 ex., 31. v. 1965, Native collr ; Borikhane Prov., Pakkading, 1 ex., 21. iv. 1965, J. L. Gressitt ; Khammouane Prov., Phon Tiou, 1 ex., 28. iv. 1965, Native collr (BISHOP) ; Umgeb. Vanky, 1 ex., 1963 (MUNCHEN). VIETNAM : Ban Me Thuot, 500 m, 2 exs., 16-18. v. 1968, S. Quate & L. Quate ; Dalat, 6 km S., 1,400-1,500 m, 2 exs., 9. vi.-7. vii. 1961, N. R. Spencer ; Kontum, N. of Pleiku, 550 m, 2 exs., 13. v. 1960, S. Quate & L. Quate ; 25 km SW of Pleiku, 400 m, 3 exs., 12. v. 1960, S. Quate & L. Quate ; Fyan, 900-1,000 m, 1 ex., 11. vii.

-9. viii, 1961, N. R. Spencer (BISHOP).

***Monolepta pallidula* (Baly)**

Luperodes pallidulus Baly, 1874, Trans. Ent. Soc. London, 1874 ; 187 (Japan : Nagasaki ; BM).
-Ogloblin, 1936, Fauna USSR, 26, 1: 307, 310, 431 (Japan).

Monolepta gracilipes Chûjô, 1938, Arb. Morph. Taxon. Ent. Berlin, 5 (2) : 145 (Formosa ; TARI);
1962, Phil. J. Sci., 91 (1-Z) : 123 (Formosa).-Kimoto, 1969, Esakia, Kyushu Univ., 7 : 47 (= ***pallidula***).

Monolepta pallidula : Chûjô, 1962, Phil. J. Sci., 91 (1-2) : 123 (Formosa).-Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B: 604, 626, fig. (China).

Distribution : Thailand, Laos, Vietnam, S. China, Taiwan, Ryukyu Is., Japan.

Material examined. THAILAND : Pangmakampo (Pankampawng), nr. Fang, 450 m, 2 exs., 15-16. xi. 1957, J. L. Gressitt ; Nakorn-nayok, 1 ex., 14. v. 1963, Native collr (BISHOP) ; Chiangmai Prov., Chiangdao, 1 ex., 15. vi. 1965, Y. Miyatake (KU) ; Khon Kaen, 3 exs., 22. xii. 1979, 3 exs., 24. vii. 1980, 8 exs., 7. x. 1981, 2 exs., 8. x. 1981, S. Azuma (RU) ; Musa, nr. Fang, 2 exs., 22. xi. 1968, K. Hata (EHIME). LAOS : Vientiane Prov., Ban Van Eue, 20 exs., 13. iv. 1965, 1 ex., 15. iv. 1965, J. L. Gressitt, 6 exs., 1-15. v. 1965, 1 ex., 15-31. v. 1955, J. A. Rondon, 1 ex., 15. iv. 1965, 1 ex., 15. v. 1967, 2 exs., 30. ix. 1967, 2 exs., 2. ii. 1967, 1 ex., 31. xii. 1968, Native collr ; Vientiane Prov., Phou-kow-kuei, 14 exs., 12-17. iv. 1965, J. L. Gressitt ; Vientiane Prov., Tha Ngone, 1 ex., 16. xi. 1965, Native collr ; Borikhane Prov., Paksane, 1 ex., 29. xi. 1965, Native collr ; Sayaboury Prov., Sayaboury, 13 exs., 15-16. iv. 1965, J. L. Gressitt, 1 ex., 12. ii. 1966, Native collr (BISHOP). VIETNAM : Fyan, 7 exs., 11. vii.-9. viii. 1961, N. R. Spencer (BISHOP).

***Monolepta pallidulella* n. sp. Fig. 38a**

Generally yellowish brown, antenna black with apical four or five segments brownish.

Head with vertex smooth, shining, sparsely impressed by minute punctures, interocular space distinctly wider than transverse diameter of single oculus, and interocular transverse impression distinct, frontal tubercle subtriangular and distinctly raised. Antenna slender, nearly 2/3 as long as length of body ; first segment long, second shortest, nearly 1/3 as long as first, third 1 1/2 times as long as second, fourth nearly twice as long as third, fifth slightly longer than fourth, fifth to eighth subequal to each other in length and shape, ninth slightly shorter than eighth, tenth slightly shorter than ninth, eleventh slightly longer than tenth and subequal to ninth in length but its apex pointed. Pronotum transverse, 1 3/4 times as broad as long, anterior margin nearly straight, lateral margin slightly rounded, widest at 1/3 from anterior margin, and slightly narrowed anteriorly and more strongly so posteriorly, basal margin strongly rounded posteriorly, dorsal surface convex, with a pair of deep transverse depressions which are united at middle, closely impressed by distinct punctures and interstices of punctures smooth, shining. Scutellum subtriangular, smooth, shining, impunctate. Elytron broader than prothorax, more strongly and closely punctate, and interstices of punctures smooth, shining.

Male : Fifth abdominal segment trilobed, median lobe generally flat. Female : Fifth abdominal segment entire.

Length : 4.2-5.0 mm.

Holotype (BISHOP) : VIETNAM : Fyan, 900-1,000 m, 11. vii.-9. viii. 1961, N. R. Spencer. Paratopotypes : 39 exs., same data as the holotype (BISHOP, KIMOTO). Paratypes : LAOS : Vientiane Prov., Vientiane, 1 ex., 31. v.-3. vi. 1960, S. Quate & L. Quate (BISHOP). VIETNAM : Mt. Lang Bian,

1,500-2,000 m, 13 exs., 19. v.-8. vi. 1961, N. R. Spencer ; Dalat, 1,500 m, 5 exs., 29. iv.-4. v. 1960, S. Quate & L. Quate ; Dalat, 6 km S., 1,400-1,500 m, 8 exs., 9. vi.-7. vii. 1961, N. R. Spencer ; 15 km NW of Dalat, 1,850 m, 1 ex., 5. v. 1960, L. W. Quate ; 6 km SW, Dalat, 1,550 m, 1 ex., 11. ix. 1960, J. L. Gressitt ; Blao (Balao), 500 m, 2 exs., 14-21. x. 1960, C. M. Yoshimoto ; Dak Song, 76 km SW of Ban Me Thuot, 3 exs., 19-21. v. 1960, S. Quate & L. Quate (BISHOP).

This new species closely resembles *Monolepta pallidula* (Baly), but differs in having antenna black with the apical four or five segments brownish, and pronotum with a transverse furrow much deeper.

***Monolepta pseudornata* n. sp.** Fig. 43b

Generally pitchy black ; elytron black with a large median marking yellowish brown ; meso- and metathorax black ; abdomen reddish brown.

Head with vertex smooth, shining, sparsely impressed by minute punctures; interocular space subequal to transverse diameter of single oculus, and interocular transverse impression distinct, frontal tubercle subtriangular and distinctly raised. Antenna slender, nearly $2/3$ as long as body length ; first segment long, second shortest, nearly $1/4$ as long as first, third $2\frac{1}{4}$ times as long as second, fourth $1\frac{1}{2}$ times as long as third, fifth slightly longer than fourth, fifth to eighth subequal to each other in length and shape, ninth slightly shorter than eighth, tenth subequal to ninth in length and shape, eleventh longer than tenth and subequal to eighth in length but its apex pointed. Pronotum transverse, $1\frac{1}{2}$ times as broad as long, anterior margin nearly straight, lateral margin slightly rounded, widest slightly before middle, and slightly narrowed anteriorly and posteriorly, basal margin strongly rounded posteriorly, dorsal surface convex, with a pair of deep transverse depressions laterally, rather closely impressed by fine punctures, and interstices of punctures smooth, shining. Scutellum subtriangular, smooth shining, impunctate. Elytron broader than prothorax, more strongly and closely punctate, and interstices of punctures smooth, shining, and with a feebly impressed transverse depression subbasally.

Male : Unknown. **Female** : Fifth abdominal segment entire.



Fig. 39. a, *Monolepta semicostata* n. sp. ; b, *M. trangica* n. sp. ; c, *M. azumai* n. sp.

Length : 5.3-5.4 mm.

Holotype (BISHOP) : VIETNAM : Fyan, 1,200 m, 11. vii.-9. viii. 1961, N. R. Spencer. Paratype : 1 ex same as holotype but 900-1,000 m (KIMOTO).

This new species resembles *Monolepta ornata* (Jacoby), from Burma, but differs in having the abdominal segments generally reddish brown, and elytral marking much elongate.

***Monolepta pseudosignata* n. sp.** Fig. 42b

Generally yellowish to reddish brown ; elytron black with two large discal markings, together with apex, yellowish brown, and basal marking closely situated to basal margin, antenna pitchy brown with basal two or three segments brownish, ventral surfaces with meso- and metathorax black, legs with tibiae and tarsi pitchy brown.

Head with vertex somewhat wrinkled, sparsely impressed by minute punctures, interocular space distinctly wider than transverse diameter of single oculus, and interocular transverse impression feebly impressed only on middle, frontal tubercle subtriangular and slightly raised. Antenna slender, nearly $2/3$ as long as length of body ; first segment long, second shortest, nearly $1/3$ as long as first, third $1\frac{1}{3}$ times as long as second, fourth $2\frac{1}{3}$ times as long as third, fourth to eighth subequal to each other in length and shape, ninth slightly shorter than eighth, tenth subequal to ninth in length and shape, eleventh longer than tenth and subequal to eighth in length but its apex pointed. Pronotum transverse, $1\frac{1}{2}$ times as broad as long, anterior margin nearly straight, lateral margin slightly rounded, widest slightly before middle and slightly narrowed anteriorly and posteriorly, basal margin strongly rounded posteriorly, dorsal surface convex side to side, without any trace of depressions laterally, rather closely impressed by fine punctures, and interstices of punctures smooth, shining. Scutellum subtriangular, smooth, shining, impunctate. Elytron broader than prothorax, strongly and rather closely punctate, and interstices of punctures smooth, shining.

Male : Fifth abdominal segment trilobed, median lobe generally flat. **Female** : Fifth abdominal segment entire.

Length : 4.5 mm.

Holotype (BISHOP) : LAOS : Sayaboury Prov., Sayaboury, 31. xii. 1965, Native collr. Paratypes : LAOS : Sayaboury Prov., Sayaboury, 2 exs., 6. xii. 1965, 1 ex., 12. xii. 1965, Native collr (BISHOP, KIMOTO). VIETNAM: Ban Me Thuot, 500 m, 1 ex., 16-18. v. 1960, L. W. Quate (BISHOP).

This new species closely resembles *Monolepta signata* (Olivier), but differs in being the body length longer, and having elytron with the apex yellowish brown.

***Monolepta quadrinotata* n. sp.** Fig. 42a

Generally reddish brown ; head dark reddish brown with vertex pitchy black, elytron black with anterior and posterior markings yellowish brown ; antenna pitchy brown with basal one or two segments reddish brown ; ventral surfaces with meso- and metathorax black ; legs with most of tibiae and tarsi pitchy brown.

Head with vertex smooth, shining, sparsely impressed by minute punctures ; interocular space distinctly wider than transverse diameter of single oculus, and interocular transverse depression distinct, frontal tubercle subtriangular and distinctly raised. Antenna slender, nearly $2/3$ as long as body length ; first segment long, second shortest, nearly $2/5$ as long as first, third slightly longer than second, fourth nearly twice as long as third, fourth to seventh subequal to each other in length and shape, eighth slightly shorter than seventh, eighth to tenth subequal to each other in length and shape,

eleventh slightly longer than tenth and subequal to seventh in length but its apex pointed. Pronotum transverse, 1 1/2 times as broad as long, anterior margin slightly rounded anteriorly, lateral margin distinctly rounded, widest almost at middle, slightly narrowed anteriorly and posteriorly, basal margin strongly rounded posteriorly, dorsal surface convex side to side, without any trace of depression laterally, sparsely impressed by fine punctures, and interstices of punctures smooth, shining. Scutellum subtriangular, smooth, shining, sparsely impressed by minute punctures. Elytron broader than prothorax, more strongly and closely punctate, and interstices of punctures smooth, shining.

Male : Fifth abdominal segment trilobed, median lobe generally flat. **Female** : Fifth abdominal segment entire.

Length: 3.9-4.2 mm.

Holotype (BISHOP) : LAOS : Ban Van Eue, SE of Phou-kow-kuei, 12. iv. 1965, J. L. Gressitt. **Paratopotypes** : 2 exs., same data as the holotype (BISHOP, KIMOTO). **Paratypes**: THAILAND : Chiangmai Prov., Mak Klang, 340 m, 1 ex., 11. vi. 1965, P. D. Ashlock (BISHOP); Chiang Dao, 2 exs., 15. vi. 1965, K. Morimoto & Y. Miyatake (KU). LAOS : Ban Van Eue, SE of Phou-kow-kuei, 6 exs., 13. iv. 1965, 1 ex., 11. iv. 1965, J. L. Gressitt, 1 ex., 15-31. v. 1965, Native collr ; Phou-kow-kuei, 800 m, N. of Vientiane, 2 exs., 10. iv. 1965, J. L. Gressitt ; Vientiane Prov., Gi Sion Vill., de Tha Ngone, 7 exs., 2. i. 1966, Native collr ; Borikhan Prov., Pakkading, 2 exs., 13. vii. 1965, Native collr ; Sedon Prov., Pakse, 1 ex., 31. v. 1965, Native collr ; Wapikhamthong Prov., Khong Sedon, 1 ex., 30. v. 1965, Native collr ; Sayaboury Prov., Sayaboury, 1 ex., 15. iv. 1965, J. L. Gressitt (BISHOP).

This new species somewhat resembles *Monolepta laosensis* Kimoto, but differs in being the body length shorter and having the head generally dark reddish brown to black.

***Monolepta quatei* n. sp.** Fig. 44a

Generally yellowish brown to reddish brown; elytron black with yellowish marking covering nearly 4/5 of width of disc and free from lateral and sutural margins; antenna pitchy black with basal two or three segments yellowish brown ; ventral surfaces with meso- and metathorax pitchy black.

Head with vertex smooth, shining, sparsely impressed by distinct punctures, interocular space distinctly wider than transverse diameter of single oculus, and interocular transverse impression distinct, frontal tubercle subtriangular and slightly raised. Antenna slender, nearly 2/3 as long as length of body ; first segment long, second shortest, nearly 1/4 as long as first, third as long as second but slenderer, fourth three times as long as third, fifth subequal to fourth in length and shape, sixth slightly shorter than fifth and sixth to ninth subequal to each other in length and shape, tenth slightly shorter than ninth, eleventh slightly longer than tenth and subequal to ninth in length but its apex pointed. Pronotum transverse, 1 3/4 times as broad as long, anterior margin slightly rounded posteriorly, lateral margin distinctly rounded, widest almost at middle, distinctly narrowed anteriorly and posteriorly, basal margin strongly rounded posteriorly, dorsal surface convex side to side, without any trace of depression laterally, rather closely impressed by strong punctures, and interstices of punctures smooth and shining. Scutellum subtriangular, smooth, shining, impunctate. Elytron broader than prothorax, more strongly and closely punctate, and interstices of punctures smooth, shining.

Male : Unknown. **Female** : Fifth abdominal segment entire.

Length : 2.7-3.0 mm.

Holotype (BISHOP) : VIETNAM : Ban Me Thout, 16-18. v. 1960, L. W. Quate. **Paratopotype** : 1 ex., same data as the holotype (KIMOTO). **Paratypes** : THAILAND : Chiangmai Prov., Chiang Dao,

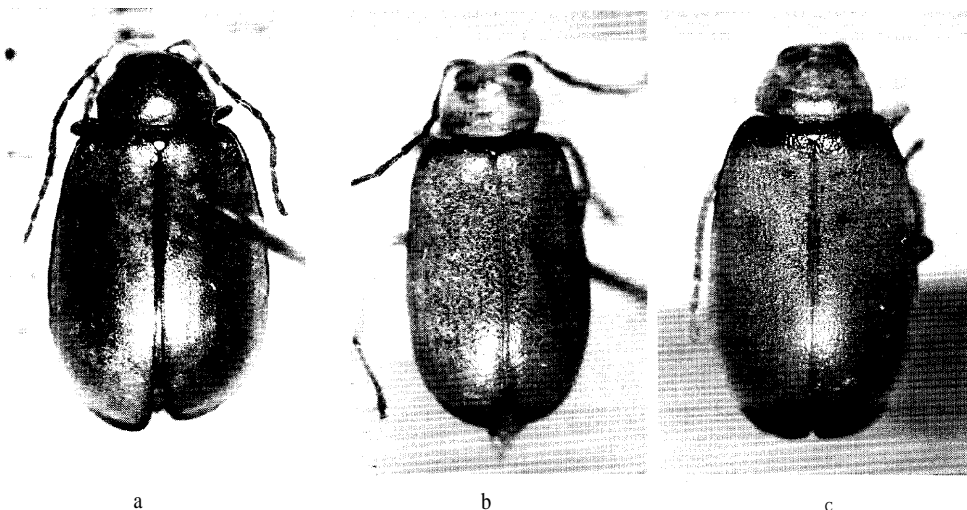


Fig. 40. a, *Monolepta miyatakei* n. sp. ; b, *M. fyanica* n. sp. ; c, *M. banmethuotica* n. sp.

1 ex., 15. vi. 1965, Y. Miyatake (KU). LAOS : Sedone Prov., Pakse, 1 ex., 31. v. 1967, Native collr (BISHOP).

This new species resembles *Monolepta flavovittata* Chen, but differs in having pronotum more strongly and closely punctate, and the head and the fifth abdominal segment generally brownish.

***Monolepta rondoni* n. sp.** Fig. 41a

Generally yellowish brown; elytron with basal margin reddish brown and lateral, sutural and apical margins blackish ; head black ; metathorax reddish brown, legs with tibiae and tarsi black ; antenna reddish brown.

Head with vertex very finely and sparsely punctate, interocular space wider than transverse diameter of single oculus, and interocular transverse impression distinct, frontal tubercle subtriangular and distinctly raised. Antenna slender, nearly $2/3$ as long as length of body ; first segment long, second shortest, nearly $1/3$ as long as first, third subequal to second in length, fourth $2 \frac{1}{3}$ times as long as third, fourth to sixth subequal to each other in length and shape, seventh slightly shorter than sixth, seventh to ninth subequal to each other in length and shape, eleventh subequal to ninth in length but its apex pointed. Pronotum transverse, $1 \frac{1}{2}$ times as broad as long, anterior margin nearly straight, lateral margin slightly rounded, widest at slightly before middle, narrowed anteriorly and posteriorly, dorsal surface convex, with a pair of shallow depressions laterally, closely impressed by fine punctures. Scutellum subtriangular, smooth, shining, impunctate. Elytron broader than prothorax, more strongly and closely punctate, and interstices of punctures smooth, shining.

Male : Fifth abdominal segment trilobed, median lobe generally flat. Female : Fifth abdominal segment entire.

Length : 5.7-7.2 mm.

Holotype (BISHOP) : LAOS : Vientiane Prov., Ban Van Èue, 1-15. v. 1965, J. A. Rondon. Paratopotypes : 13 exs., same data as the holotype (BISHOP, KIMOTO). Paratypes : Same locality as the holotype, 1 ex., 16. iv. 1965, J. L. Gressitt, 1 ex., 15-31. v. 1965, 1 ex., 15. xii. 1966, Native collr,

Sayaboury Prov., Sayaboury, 2 exs., 15. iv. 1965, J. L. Gressitt ; Wapikhamthong Prov., Wapi, 2 exs., 15. x. 1967, Native collr (BISHOP) ; Umgeb. Vientiane, 6 exs., iii-vi. 1963 (MUNCHEN).

This new species resembles *Monolepta miyatakei* Kimoto, but differs in having the basal margin of elytron reddish brown, and in the male the median lobe of the fifth abdominal segment generally flat.

***Monolepta rubrobasalis* n. sp.** Fig. 38b

Generally yellowish brown, elytron with basal margin reddish brown.

Head with vertex very finely granulate, impunctate, interocular space distinctly narrower than transverse diameter of single oculus, and interocular transverse impression distinct, frontal tubercle subtriangular and distinctly raised. Antenna slender, nearly $2/3$ as long as length of body, first segment long, second shortest, nearly $1/4$ as long as first, third $1\frac{1}{2}$ times as long as second, fourth $2\frac{1}{2}$ times as long as third, fifth slightly longer than fourth, fifth to eighth subequal to each other in length and shape, ninth slightly shorter than eighth, tenth subequal to ninth in length and shape, eleventh subequal to ninth in length but its apex pointed. Pronotum transverse, $1\frac{1}{3}$ times as broad as long, anterior margin nearly straight, lateral margin slightly rounded, widest almost at middle, slightly narrowed anteriorly and posteriorly, basal margin strongly rounded posteriorly, dorsal surface convex, with a pair of shallow depressions laterally, sparsely impressed by fine punctures, and interstices of punctures finely granulate. Scutellum subtriangular, finely granulate, impunctate. Elytron broader than prothorax, more strongly and closely punctate, and interstices of punctures finely granulate.

Male : Fifth abdominal segment trilobed, median lobe longitudinally sulcate. Female : Fifth abdominal segment entire.

Length : 5.7-7.5 mm.

Holotype (BISHOP) : THAILAND : Chiangmai Prov., Fang, 500 m, 15. iv. 1958, T. C. Maa. Paratypes: THAILAND: Chiangmai Prov., Chiangmai, 5 exs., 11. iv. 1966, J. Sedlacek ; Chiangmai Prov., Fang, 500 m, 12-19. iv. 1958, T. C. Maa ; Chiangmai Prov., Chiengdao, 450 m, 12 exs., 5-11. iv. 1958, T. C. Maa ; Chiangmai Prov., Doi Suthep, 6 exs., 29. iii.-4. v. 1958, 1 ex., 28-31. iii. 1958, 4 exs., 1-8. iv. 1958, T. C. Maa ; 50 km W. of Tak, 900 m, 2 exs., 7-8. iv. 1966, J. & J. H. Sedlacek (BISHOP) ; Chiangmai Prov., Doi Pui, 1,300 m, 2 exs., 8. vi. 1965, Y. Miyatake (KU).

This new species resembles *Monolepta nigrifrons* (Allard), but differs in having pronotum more narrower, and elytron yellowish brown with the basal margin reddish brown.

***Monolepta rugipennis* (Laboissière), new combination**

Nadrana rugipennis Lab., 1936, Ann. Soc. Ent. France, 105 : 261 (Tonkin ; HAMBURG).

Distribution : Thailand, Laos, Vietnam.

Material examined. THAILAND : Chiangmai Prov., Doi Suthep, 2 exs., 1-5. iv. 1958, T. C. Maa (BISHOP) ; Khao Yai Nat. Park, 2 exs., 6. vi. 1965, Y. Miyatake (KU) ; Khon Kaen, 1 ex., 24. vii. 1980, 2 exs., 8. x. 1981, S. Azuma ; Nam Proam, 2 exs., 19. i. 1980, S. Azuma (RU). LAOS : Vientiane Prov., Ban Van Eue, 1 ex., 16. iii. 1966, 1 ex., 15. xii. 1966, Native collr ; Sayaboury Prov., Sayaboury, 2 exs., 21. iv. 1966, Native collr ; Phon Tiou, 4 exs., iii. 1965, 7 exs., 1-15. iv. 1965, J. L. Gressitt, 3 exs., 28. iv. 1965, 40 exs., 30. iv. 1965, 2 exs., 17. v. 1965, 2 exs., 13. vi. 1965, 8 exs., 6. vii. 1965, 1 ex., 4. viii. 1965, 6 exs., 11. ix. 1965, Native collr (BISHOP) ; Umgeb. Vientiane, 20 exs., 1963 ; Umgeb. Paklay, 16 exs., 1963 ; Umgeb. Vanky, 11 exs., 1963, 2 exs., 1964 ; Umgeb. Pakse, 1 ex., 1963, 8 exs., 1964 (MUNCHEN).

***Monolepta scripta* (Motschulsky)**

Luuperodes scriptus Motsch., 1866, Bull. Soc. Nat. Moscow, 39 (1) : 416 (Ceylon).

Luuperodes multimaculatus Jacoby, 1887, Proc. 2001. Soc. London, 1887 : 111 (Ceylon ; BM).

-Maulik, 1936, Fauna India, Galeruc. : 403 (= *scripta*).

Monolepta multimaculata : Jacoby, 1889, Ann. Mus. Civ. Genova, 27 : 226 (Burma ; GENOVA).

-Maulik, 1936, Fauna India, Galeruc. : 403 (= *scripta*).

Monolepta piceomaculata Jacoby, 1896, Ann. Soc. Ent. Belg., 40 : 295 (India ; BM).-Maulik, 1936, Fauna India, Galeruc. : 403 (= *scripta*).

Monolepta scripta : Maulik, 1936, Fauna India, Galeruc. : 403 (India, Ceylon, Burma).

Distribution : India, Ceylon, Burma, Laos, Vietnam.

Material examined. LAOS : Ban Van Eue, 800 m, SE of Phou-kow-kuei, 1 ex., 11. iv. 1965, J. L. Gressitt (BISHOP). VIETNAM : Fyan, 900-1,000 m, 2 exs., 11. vii.-9. viii. 1961, N. R. Spencer ; Dalat, 6 km S., 1,400-1,500 m, 1 ex., 9. vi.-7. vii. 1961, N. R. Spencer (BISHOP).

***Monolepta scutellaris* n. sp.** Fig. 34a

Generally yellowish to reddish brown, elytron with scutellar and humeral marking and apical 1/3 blackish in male and with basal and apical 1/3 blackish in female, legs generally pitchy black.

Head with vertex somewhat wrinkled, sparsely impressed by fine punctures, interocular space subequal to transverse diameter of single oculus, and interocular transverse impression distinct, frontal tubercle subtriangular and distinctly raised. Antenna slender, nearly as long as body length ; first segment long, second shortest, nearly 1/3 as long as first, third 1 1/2 times as long as second, fourth twice as long as third, fifth to tenth subequal to each other in length and shape, eleventh slightly shorter than tenth and its apex pointed. Pronotum transverse, 1 1/4 times as broad as long in male and 1 1/2 times as broad as long in female, anterior margin nearly straight, lateral margin feebly rounded, widest slightly before middle and slightly narrowed anteriorly and more strongly so posteriorly, basal margin distinctly rounded posteriorly, and almost straight at middle, dorsal surface convex, and with a pair of deep oblique depressions and closely impressed by distinct punctures, and their interstices smooth, shining. Scutellum subtriangular, smooth, shining, impunctate. Elytron broader than prothorax, finely and closely punctate, and interstices of punctures smooth, shining.

Male : Elytron with a longitudinal shallow depression along suture and with a tuft of hairs behind scutellum ; fifth abdominal segment trilobed, median lobe slightly depressed as a whole. **Female** : Elytron normal ; fifth abdominal segment entire.

Length : 5.3-6.0 mm.

Holotype (BISHOP) : LAOS : Sedone Prov., Paksong, 17-18. v. 1965, light trap, P. D. Ashlock. Paratopotypes : 3 exs., same data as the holotype (BISHOP, KIMOTO). Paratypes : LAOS : Attopeu Prov., Houei Kong, 1 ex., 31. v. 1965, 6 exs., 20. vii. 1965, Native collr ; Vientiane Prov., Ban Van Eue, 1 ex., 15. ii. 1966, 1 ex., 30. iii. 1967, 1 ex., 15-30. viii. 1968, Native collr (BISHOP).

This new species resembles *Monolepta marginipennis* (Jacoby), but differs in having pronotum with a pair of deep oblique depressions laterally, and in male elytron with a longitudinal shallow depression and a tuft of hairs behind scutellum.

***Monolepta semiapicalis* n. sp.** Fig. 36a

Head black, prothorax yellowish brown, elytron pitchy black with apical 1/3 reddish brown and its boundary ill-defined ; ventral surfaces yellowish to reddish brown with most of meso- and

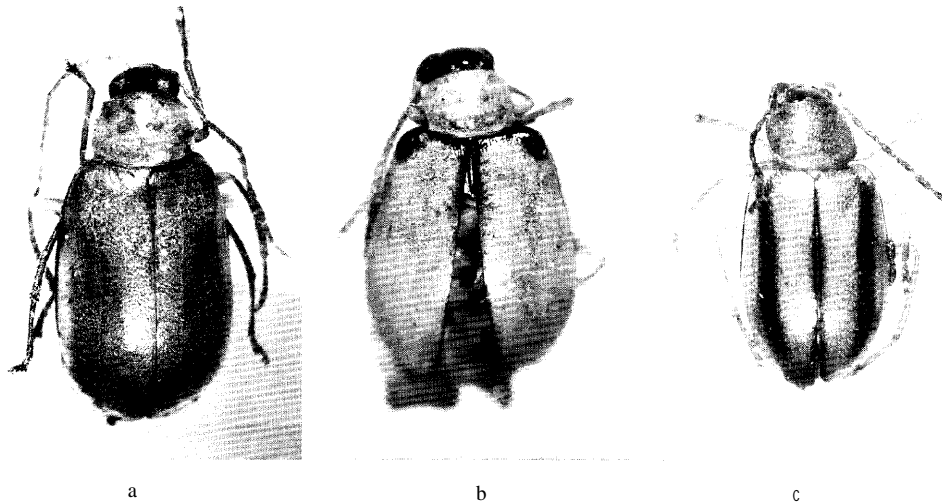


Fig. 41. a, *Monolepta rondoni* n. sp. ; b, *M. semihumeralis* n. sp. ; c, *M. sexlineata* Chûjô.

metathorax pitchy black ; antenna and legs entirely yellowish brown.

Head with vertex sparsely impressed by fine punctures and their interstices smooth and shining ; interocular space distinctly wider than transverse diameter of single oculus, and interocular transverse impression distinct, frontal tubercle subtriangular and distinctly raised. Antenna slender, nearly $\frac{2}{3}$ as long as body length; first segment long, second shortest, nearly $\frac{1}{3}$ as long as first, third subequal to second in length, fourth $3\frac{1}{4}$ times as long as third, fifth slightly longer than fourth, fifth to eighth subequal to each other in length and shape, ninth slightly shorter than eighth, tenth subequal to ninth in length and shape, eleventh subequal to tenth in length but its apex pointed. Pronotum transverse, $1\frac{1}{2}$ times as broad as long, anterior margin nearly straight, lateral margin slightly rounded, widest slightly before middle and slightly narrowed anteriorly and posteriorly, basal margin strongly rounded posteriorly, dorsal surface convex, with a pair of shallow oblique depressions laterally, sparsely impressed by distinct punctures, and interstices of punctures smooth and shining. Scutellum subtriangular, smooth, shining, impunctate. Elytron broader than prothorax, more strongly and closely punctate, and interstices of punctures smooth and shining.

Male : Unknown. **Female** : Fifth abdominal segment entire.

Length : 4.8 mm.

Holotype (BISHOP) : VIETNAM : Mt. Lang Bian, 1,500-2,000 m, N. R. Spencer. Paratopotypes : 2 exs., same data as the holotype (BISHOP, KIMOTO).

This new species somewhat resembles *Monolepta luparina* Weise, but differs in having elytron with the apical $\frac{1}{3}$ reddish brown, and the head generally blackish.

***Monolepta semicostata* n. sp. Fig. 39a**

Generally yellowish brown, elytron with basal margin blackish ; scutellum pitchy black ; antenna pitchy black with basal two or three segments paler ; head with narrow blackish area behind eye ; ventral surfaces with metathorax largely blackish.

Head with vertex sparsely impressed by minute punctures, surface smooth, shining interocular

space distinctly wider than transverse diameter of single oculus, and interocular transverse impression distinct, frontal tubercle subtriangular and distinctly raised. Antenna slender, nearly $2/3$ as long as length of body ; first segment long, second shortest, nearly $2/5$ as long as first, third as long as second but slenderer, fourth $2\frac{1}{2}$ times as long as third, fourth to eighth subequal to each other in length and shape, ninth slightly shorter than eighth, tenth subequal to ninth in length and shape, eleventh slightly longer than tenth and subequal to eighth in length but its apex pointed. Pronotum transverse, nearly $1\frac{2}{3}$ times as broad as long, anterior margin nearly straight, lateral margin distinctly rounded, widest at $1/3$ from anterior margin, slightly narrowed anteriorly and more strongly so posteriorly, basal margin distinctly rounded posteriorly, dorsal surface convex, with a pair of shallow transverse depressions laterally, sparsely impressed by fine punctures, and interstices of punctures smooth, shining. Scutellum subtriangular, smooth, shining, impunctate. Elytron broader than prothorax, more strongly and closely punctate, and punctures arranged in semiregular longitudinal rows, and their interstices smooth, longitudinally raised.

Male : Fifth abdominal segment trilobed, median lobe generally flat. **Female** : Fifth abdominal segment entire.

Length : 3.0-4.1 mm.

Holotype (BISHOP) : LAOS: Khuammouane Prov., Phon Tiou, 11-12. vi. 1965, J. A. Rondon. Paratypes : LAOS : Khuammouane Prov., Phon Tiou, 1 ex., 3. iv. 1965, 1 ex., 9. vi. 1965, N. Wilson ; Vientiane Prov., Ban Van Eue, 1 ex., 14-15. iv. 1965, J. L. Gressitt, 1 ex., 28. ii. 1966, Native collr ; Borikhane Prov., Pakkading, 100-200 m, 1 ex., **23**. iv. 1965, J. L. Gressitt (BISHOP, KIMOTO).

This new species somewhat resembles *Monolepta azumai* Kimoto, but differs in having elytron impressed by the punctures semiregularly arranged in rows and their interstices distinctly raised longitudinally.

Monolepta semihumeralis n. sp. Fig. 41b

Head black, prothorax yellowish brown, elytron yellowish brown with margins, together with humerus, black to pitchy brown, and basal part of sutural margin somewhat widely blackish ; antenna pitchy black, with two or three basal segments brownish ; meso- and metathorax pitchy black ; abdomen pitchy black with fifth segment brownish ; legs yellowish brown with tibiae and tarsi pitchy brown.

Head with vertex smooth, shining, sparsely impressed by minute punctures; interocular space distinctly wider than transverse diameter of single oculus, and interocular transverse impression distinct, frontal tubercle subtriangular and distinctly raised. Antenna slender, nearly $2/3$ as long as length of body ; first segment long, second shortest, nearly $1/3$ as long as first, third subequal to second in length but slenderer, fourth twice as long as third, fifth slightly longer than fourth, sixth slightly shorter than fifth, sixth to eighth subequal to each other in length and shape, ninth slightly shorter than eighth and robust, tenth subequal to ninth in length and shape, eleventh subequal to eighth in length but its apex pointed. Pronotum transverse, $1\frac{1}{2}$ times as broad as long, anterior margin nearly straight, lateral margin slightly rounded, widest almost at anterior margin, and slightly narrowed posteriorly, basal margin strongly rounded posteriorly, dorsal surface convex, with a pair of deep depressions laterally, rather closely impressed by distinct punctures, and interstices of punctures smooth, shining. Scutellum subtriangular, smooth, shining, impunctate. Elytron broader than prothorax, more strongly and closely punctate, and interstices of punctures smooth, shining.

Male : Unknown. **Female** : Fifth abdominal segment entire.

Length : 2.7 mm.

Holotype (BISHOP) : VIETNAM : Mt. Lang Bian, 1,500-2,000 m, 19. v.-8. vi. 1961, N. R. Spencer.

Paratopotypes : 3 exs., same data as the holotype (BISHOP, KIMOTO). Paratype : VIETNAM : Dalat, 1,500 m, 1 ex., 29. iv.-4. v. 1960, S. Quate & L. Quate (BISHOP).

This new species somewhat resembles *Monolepta nigrobasalis* Jacoby, but differs in being the body length shorter, and having the head entirely blackish.

***Monolepta semiluperina* n. sp.** Fig. 36b

Generally pitchy black, head, prothorax and scutellum reddish brown, antenna pitchy black with first segment generally reddish brown ; legs pitchy black with anterior leg generally reddish brown.

Head with vertex smooth, shining, sparsely impressed by minute punctures, interocular space subequal to transverse diameter of single oculus, frontal tubercle subtriangular and slightly raised and not delimited posteriorly by interocular transverse impression. Antenna slender, nearly as long as body length ; first segment long, second shortest, nearly $1/3$ as long as first, third $1\frac{1}{2}$ times as long as second, fourth nearly $1\frac{2}{3}$ times as long as third, fifth slightly longer than fourth, fifth to seventh subequal to each other in length and shape, eighth slightly shorter than seventh, eighth to tenth subequal to each other in length and shape, eleventh longer than tenth and subequal to fifth in length but its apex pointed. Pronotum transverse, $1\frac{2}{3}$ times as broad as long, anterior margin nearly straight, lateral margin slightly rounded, widest almost at $1/3$ from basal margin, and narrowed anteriorly and posteriorly, basal margin strongly rounded posteriorly, dorsal surface convex side to side, without any trace of depression laterally, sparsely impressed by fine punctures, and interstices of punctures smooth, shining. Scutellum subtriangular, smooth, shining, impunctate. Elytron broader than prothorax, more strongly and closely punctate, and interstices of punctures smooth, shining.

Male : Fifth abdominal segment trilobed, median lobe generally flat. **Female** : Fifth abdominal segment entire.

Length : 2.7-3.5 mm.

Holotype (BISHOP) : VIETNAM : 6 km S., Dalat, 12. ix. 1960, J. L. Gressitt. Paratopotype : 1 ex., same data as the holotype (KIMOTO). Paratypes : VIETNAM : 6 km S. of Dalat, 1,550 m, 1 ex., 11. ix. 1960, J. L. Gressitt ; Fyan, 1,200 m, 1 ex., 11. vii.- 9. viii. 1961, N. R. Spencer ; Blao (Balao), 500



Fig. 42. a, *Monolepta quadrinotata* n. sp. ; b, *M. pseudosignata* n. sp. ; c, *M. laosensis* n. sp.

m, 1 ex., 14-21. x. 1960, C. M. Yoshimoto (BISHOP).

This new species resembles *Monolepta luperina* Weise, but differs in having the legs blackish with the anterior leg brownish, and meso- and metathorax and the abdomen entirely blackish.

***Monolepta severini* (Jacoby)**

Luperus severini Jac., 1896, Ann. Soc. Ent. Belg., 40 : 276 (Belgium ; BM).

Monolepta severini: Manlik, 1936, Fauna India, Galeruc. : 424, 431 (India, Burma).—Chôjô, 1961, Nature and Life in SE Asia, Kyoto, 1 : 351 (Thailand : Chiang Mai); 1964, *ibid.*, 3 : 295 (Thailand : Chiang Mai, Li).

Distribution : India, Burma, Thailand, Laos, Vietnam.

Material examined. THAILAND: Chiangmai Prov., Chiangdao, 2 exs., 15. vi. 1965, P. D. Ashlock, 5 exs., 5-11. iv. 1958, T. C. Maa, 1 ex., 5-11. iv. 1958, Native collr ; Chiangmai Prov., Doi Suthep, 7 exs., 28-31. iii. 1958, 1 ex., 1-15. iv. 1958, T. C. Maa, 1 ex., 14. xi. 1958, J. L. Gressitt ; Chiangmai Prov., Fang, 3 exs., 12-19. iv. 1958, T. C. Maa ; Chiangmai Prov., Doi Pui, 1 ex., 2. iv. 1958, T. C. Maa ; Chiangmai Prov., Ban-tin-doi, 310 m, 1 ex., 14. xi. 1957, J. L. Gressitt ; Pangmakampon (Pakampawng), nr. Fang, 2 exs., 16. xi. 1957, J. L. Gressitt ; Doi Angka nr. Chiangmai Phon, 2,436 m, 1 ex., 9. iv. 1958, T. C. Maa ; Pakchong, 100 m, NE of Bangkok, 1 ex., 3. xii. 1957, J. L. Gressitt, 1 ex., 1-3. xii. 1957, J. L. Gressitt ; Chantaburi, Prew, 45 m, 1 ex., 25-30. iv. 1958, T. C. Maa ; Pangkan Pawng, 1 ex., 15. xi. 1957, J. L. Gressitt (BISHOP) ; Chiangmai Prov., Doi Suthep, 5 exs., 18-19. vi. 1965, Y. Miyatake ; Chiangmai Prov., Doi Pui, 1,200-1,300 m, 5 exs., 17. vi. 1965, K. Morimoto & Y. Miyatake ; Chiang Dao, 7 exs., 15. vi. 1965, K. Morimoto & Y. Miyatake, 2 exs., 10. xi. 1966, sweeping of paddy field, K. Yasumatsu & K. Yano, 4 exs., 23. iv. 1973, Y. Yoshiyasu ; Chiangmai Prov., Fang, 1 ex., 14. vi. 1965, K. Morimoto, 1 ex., 22. viii. 1965, S. Nakao ; Khao Yai Nat. Park, 1 ex., 6. vi. 1965, Y. Miyatake ; Samptong, 1 ex., 17. viii. 1973, S. Nakao ; Ratapoom, 3 exs., 27. vi. 1965, Y. Miyatake ; Kor Hong, 2 exs., 23. vi. 1965, K. Morimoto ; Songkhla, 7 exs., 23. vi. 1965, Y. Miyatake ; Mae Trang, 3 exs., 10. xi. 1966, sweeping of paddy field, K. Yasumatsu & K. Yano ; Pasang, 1 ex., 9. xi. 1966, sweeping of paddy field, K. Yasumatsu & K. Yano ; Parabattakpa, 2 exs., 9. xi. 1966, sweeping of paddy field, K. Yasumatsu & K. Yano ; Lampoon, 1 ex., 17. vii. 1970, K. Yano ; Mae Rim, nr. Chiangmai, 1 ex., 10. xi. 1966, sweeping of paddy field, K. Yasumatsu & K. Yano, 1 ex., 3. vii. 1970, sweeping of paddy field, K. Yano (KU) ; Fang Spa, 2 exs., 21. xi. 1968, K. Hatta (EHIME) ; Khon Kaen, 2 exs., 7-8. x. 1981, S. Azuma (RU) ; Saraburi, 1 ex., 28. i. 1968, K. Baba (KIMOTO). LAOS : Vientiane Prov., Vientiane, 1 ex., 31. v.-3. vi. 1960, S. Quate & L. Quate ; Vientiane Prov., Ban Van Eue, 1 ex., 1-15. v. 1965, J. A. Rondon ; Vientiane Prov., Phou-kow-kuei, 1 ex., 17. iv. 1965, J. L. Gressitt ; Vientiane Prov., Tha Ngone, 1 ex., 6. ix. 1965, Native collr ; Luang Prabang, 300 m, 4 exs., 4-5. vi. 1960, S. Quate & L. Quate ; Muong Sing, NW of Luang Prabang, 650 m, 1 ex., 6-10. vi. 1960, S. Quate & L. Quate ; Borikhane Prov., Pakkading, 100 m, 1 ex., 21. iv. 1965, J. L. Gressitt ; Sayaboury Prov., Sayaboury, 2 exs., 15. i. 1966, 1 ex., 12. ii. 1966, Native collr (BISHOP). VIETNAM : Fyan, 900-1,200 m, 49 exs., 11. vii.-9. viii. 1961, N. R. Spencer ; Mt. Lang Bian, 1,500-2,000 m, 23 exs., 19. v.-8. vi. 1961, N. R. Spencer ; Dalat, 1,500 m, 6 exs., 29. iv.-4. v. 1960, S. Quate & L. Quate, 8 exs., 26-27. ix. 1960, C. M. Yoshimoto, 1 ex., 11. ix. 1960, J. L. Gressitt ; 5 km S. of Dalat, 1,300 m, 1 ex., 2. v. 1960, S. Quate & L. Quate ; 6 km SW of Dalat, 1,550 m, 1 ex., 11. ix. 1960, J. L. Gressitt ; 6 km S. of Dalat, 1,550 m, 3 exs., 12. ix. 1960, J. L. Gressitt, 19 exs., 9. vi.-7. vii. 1961, N. R. Spencer ; 15 km, from Dalat, 1,500 m, 1 ex., 29. iv.-5. v. 1960, S. Quate ; 17 km NE of Dalat, 2,000 m, 1 ex., 3. v. 1960, L. W. Quate ; 37 km SE of Dalat, 780 m, 1 ex., 25. iv. 1960, L. W. Quate ; 20 km S., Dalat, 1,300 m, 5 exs., 12. ix. 1960, J. L. Gressitt ; Quang Tri, 2 km N., 1 ex., 9. iii. 1970, 1 ex., 30. iv. 1970, 4 exs., 9-11. vi. 1970, A. R. Gillogly ; 34 km N., Phan Rang, 1 ex., 9. xi. 1960, C. M. Yoshimoto ; Blao (Balao), 600 m, 1 ex., 14-21. x. 1960,

C. M. Yoshimoto ; Dak Song, 76 km SW of Ban Me Thuot, 870 m, 2 exs., 19-21. v. 1960, S. Quate & L. Quate ; Ap Hung-Lam, 21 km NW of Dilinh, 1,100 m, 1 ex., 29. ix.-5. x. 1960, C. M. Yoshimoto ; 50 km SW of Pleiku, 250 m, 4 exs., 14. v. 1960, S. Quate & L. Quate ; 25 km SW of Pleiku, 400 m, 4 exs., 12. v. 1960, L. W. Quate ; 20 km N. of Pleiku, 650 m, 5 exs., 9. v. 1960, L. W. Quate ; M'Drak, E. of Ban Me Thuot, 4-600 m, 1 ex., 8-19. xii. 1960, C. M. Yoshimoto ; Dilin (Djiring), 1,200 m, 9 exs., 22-28. iv. 1960, L. W. Quate (BISHOP).

Monolepta sexlineata Chûjô Fig. 41c

Monolepta duvivieri Jacoby, 1904, Ann. Soc. Ent. Belg., 48 : 404 (nec Jacoby, 1897) (India : Nilgiri Hills ; BM).

Monolepta lineata Weise, 1915, Ergebnisse 2. Dtsche Zentr. Afr. Exp., Zool., 1 : 177 (new name for *Monolepta duvivieri* Jacoby, 1904 ; nec *Monolepta lineata* Karsch, 1882).—Maulik, 1936, Fauna India, Galeruc. : 398 (India).—Chûjô, 1961, Nature and Life in SE Asia, Kyoto, 1 : 351, Fig. (Thailand).

Monolepta sexlineata Chûjô, 1938, Arb. Morph. Taxon. Ent. Berlin-Dahlem, 5 (2) : 150, fig. (Formosa ; DEI) ; 1962, Phil. J. Sci., 91 (1-2) : 127, fig. (Formosa).—Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B : 632 (China, Hainan).

Monolepta tarsalis : Chûjô, 1961, Nature and Life in SE Asia, Kyoto, 1 : 352 (Thailand : Chiang-mai).

Monolepta madrasensis Wilcox, 1973, Col. Cat. Junk, Suppl., 78 (3) : 562 (new name for *Monolepta duvivieri* Jacoby, 1904, and *Monolepta Zineata* Weise, 1911).—Kimoto & Takizawa, 1983, Bull. Natn. Sci. Mus. Tokyo, ser. A, 9 (2) : 89 (Nepal). New synonym.

Distribution : India, Nepal, Thailand, Cambodia, Laos, Vietnam, China, Hainan, Taiwan.

Material examined. THAILAND : Chiangmai, 1,100-1,500 m, 1 ex., 11-12. iv. 1966, J. Sedlacek ; 20 km E. of Chiangmai, 330 m, 2 exs., 13-15. iv. 1966, J. Sedlacek (BISHOP) ; Chiangmai, 1 ex., 9. vi. 1965, K. Morimoto ; Takhane Distr., 1 ex., 24. ii. 1965, K. Yasumatsu ; Chieng Dao, 19 exs., 16. viii. 1973, sweeping of paddy field, K. Yano ; Tung Saew, 2 exs., 8. xi. 1966, sweeping of paddy field, K. Yasumatsu & K. Yano ; Mae Sai, 1 ex., 13. vii. 1970, sweeping of paddy field, K. Yano ; Saraburi, 1 ex., 31. vii. 1970, sweeping of paddy field, K. Yano ; Amphoe Phan, Chieng Rai, 1 ex., 25. iv. 1973, Y. Yoshiyasu (KU) ; Fang Spa, 1 ex., 21. xi. 1968, K. Hatta (EHIME). CAMBODIA : Ph. Chisau, 40 km S. of P. Penh, 20 m, 1 ex., 29. iv. 1961, N. R. Spencer (BISHOP). LAOS : Sedon Prov., Paksong, 8 exs., 18. v. 1965, P. D. Ashlock ; Muong Sing, NW of Luang Prabang, 650 m, 3 exs., 6-10. vi. 1960, L. W. Quate (BISHOP). VIETNAM : Mt. Lang Bian, 1,500-2,000 m, 2 exs., 19. v.-8. vi. 1961, N. R. Spencer (BISHOP).

Monolepta signata (Olivier) Fig. 33c

Galeruca signata Oliv., 1808, Entomologie, 6 : 665, pl. 5, fig. 89 (Indies or. : Bengal).

Crioceris neglecta Sahlberg, 1829, in Thomson, Ent. Arch., 2 (1) : 29, pl. 2, fig. 36 (Ostindien: Bengal).

Luperodes quadripustulatus Motschulsky, 1858, Etud. Ent., 7 : 105 (India or., Ceylon).—Jacoby, 1887, Proc. 2001. Soc. London, 109 (Ceylon).—Allard, 1891, Nouv. Arch. Mus. Paris, ser. 3, 3 : 231 (Luang-Prabang) ; 1904, Miss. Pavie Indo-Chine, 3 : 160 (Cambodge).

Monolepta signata : Jacoby, 1889, Ann. Mus. Civ. Genova, 27 : 229 (Burma, Tenasserim).—Allard, 1889, Ann. Soc. Ent. France, ser. 6, 9 : 312 (Saigon, Pnom-Penh, Mythgo, Zui-Nhon) ; 1891, Nouv. Arch. Mus. Paris, ser. 3, 3 : 231 (Luang-Prabang).—Duvivier, 1891, C. R. Soc. Ent. Belg.,

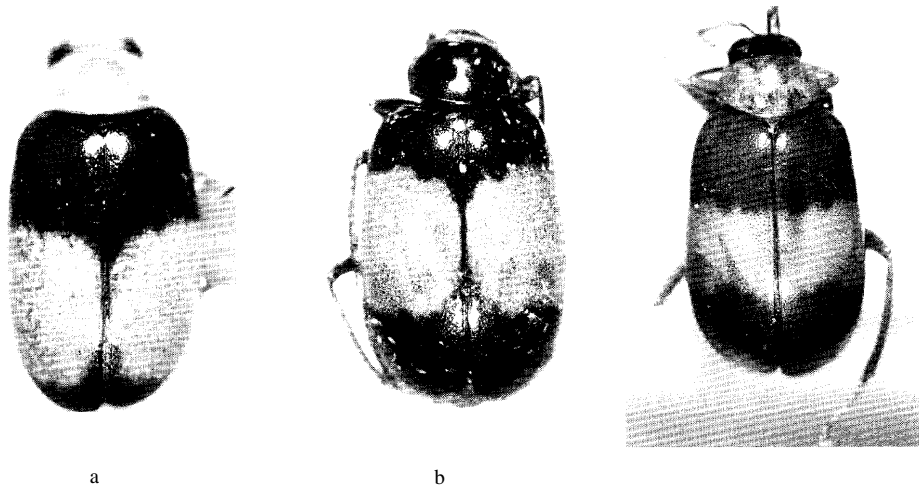


Fig. 43. a, *Monolepta subfasciata* n. sp. ; b, *M. pseudornata* n. sp. ; c, *M. spenceri* n. sp.

35 : 153 (Java) ; 1892, Ann. Soc. Ent. Belg., 36 : 444 (India).-Allard, 1904, Miss. Pavie Indo-Chine, 3 : 160 (Cambodge).-Maulik, 1936, Fauna India, Galeruc. : 410 (India, Ceylon, Siam, China).-Bryant, 1952, Ann. Mag. Nat. Hist., ser. 12, 5 : 602 (Nepal).-Chûjô, 1961, Nature and Life in SE Asia, Kyoto, 1 : 351 (Cambodia, Thailand) ; 1964, *ibid.*, 3 : 296 (Thailand).-Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B : 606, 633, fig. (China, Vietnam).-Kimoto, 1970, Khumbu Himal, 3 (3) : 421 (Nepal).-Kimoto & Takizawa, 1972, Kontyû, Tokyo, 40 (4) : 220 (Nepal) ; 1983, Bull. Natn. Sci. Mus., Tokyo, ser. A, 9 (2) : 90 (Nepal).

Monolepta neglecta : Weise, 1922, Tijdschr. Ent., 65 : 102 (Bengalen).

Monolepta signata abb. *lutea*, *coalita*, *bipunctata*, *pici*, *yunnanensis*, *sexmaculata*, *belmonti* Piton, 1943, Bull. Soc. Linn. Lyon, 12 : 138 (Yunnan).

Distribution : India, Ceylon, Burma, Nepal, Thailand, Cambodia, Vietnam, S. China, Hainan, Java.

Material examined. THAILAND : Chiang Dao, 1 ex., 10. xi. 1966, sweeping of paddy field, K. Yano, 10 exs., 16. viii. 1973, sweeping of paddy field, K. Yano ; Mae Taeng, 3 exs., 16. viii. 1973, sweeping of paddy field, K. Yano ; Fang, 9 exs., 21. viii. 1973, K. Yano ; Chiang Mai, 12 exs., 17. viii. 1973, sweeping of paddy field, K. Yano ; Sampatong, 5 exs., 24. viii. 1973, sweeping of paddy field, K. Yano, 1 ex., 7. viii. 1970, soybean, K. Yano, 1 ex., 29. xi. 1963, K. Yasumatsu, 1 ex., 8. xi. 1966, sweeping of paddy field, K. Yasumatsu & K. Yano ; Mae Tang, 12 exs., 10. xi. 1966, sweeping of paddy field, K. Yasumatsu & K. Yano ; Tung Saew, 6 exs., 8. xi. 1966, sweeping of paddy field, K. Yasumatsu & K. Yano ; Sikiew, 3 exs., 5. xi. 1966, sweeping of paddy field, K. Yasumatsu & K. Yano ; Ban-Prom, 2 exs., 4. xi. 1966, sweeping of paddy field, K. Yasumatsu & K. Yano ; Rajburi, 3 exs., 1. xi. 1966, sweeping of paddy field, K. Yasumatsu & K. Yano ; Rangsit, nr. Bangkok, 1 ex., 7. xi. 1966, sweeping of paddy field, K. Yasumatsu & K. Yano ; Chomtong, 40 km SW of Chiang Mai, 2 exs., 2. vii. 1970, sweeping of paddy field, K. Yano ; Songquare, nr. Sampatong, 3 exs., 4. vii. 1970, sweeping of paddy field, K. Yano ; Mae Sai, 3 exs., 13. vii. 1970, sweeping of paddy field, K. Yano ; Sarapi, nr. Chiang Mai, 1 ex., 18. vii. 1970, sweeping of paddy field, K. Yano ; Mae Talai, nr. Chiang Dao, 1 ex., 3. vii. 1970, upland rice, K. Yano ; Ban-Tai Gud Hin, 1 ex., 4. xi. 1966, sweeping of paddy field, K. Yasumatsu & K. Yano ; Sakon Nakhon, 4 exs., 25. ii. 1965, sweeping of paddy field, K. Yasumatsu, Kao Chong

Park, Phattalung, 3 exs., 1. iii. 1965, sweeping of paddy field, K. Yasumatsu ; Takhae Distr., 5 exs., 24. ii. 1965, K. Yasumatsu; Ban Tap Dua, Chiang Dao, 1 ex, 15. viii. 1973, sweeping of paddy field, K. Yano ; Botanical Garden, Chiang Mai, 1 ex, 13. viii. 1973, K. Yano ; Prew, 1 ex., 29. viii. 1973, sweeping of paddy field, K. Yano ; Khon Kaen, 1 ex., 3. xi. 1966, sweeping of paddy field, K. Yasumatsu & K. Yano ; Pasang, 1 ex., 9. xi. 1966, sweeping of paddy field, K. Yasumatsu & K. Yano ; Prabattakpa, 1 ex., 9. xi. 1966, sweeping of paddy field, K. Yasumatsu & K. Yano ; Chiangmai Prov., Doi Pui, 5 exs., 17. vi. 1965, K. Morimoto & Y. Miyatake ; Chiangmai Prov., Doi Suthep, 1 ex., 10. vi. 1965, K. Morimoto ; Mae Sa Water Fall, 2 exs., 16. vi. 1965, K. Morimoto ; Chiangmai, 7 exs., 9. vi. 1965, 3 exs., 12. vi. 1965, K. Morimoto ; Chiang Dao, 1 ex., 15. vi. 1965, K. Morimoto ; Fang, 13 exs., 14. vi. 1965, K. Morimoto ; Khao Yai Nat. Park, 6 exs., 6. vi. 1965, K. Morimoto & Y. Miyatake ; Khao Chong, nr. Trung, 1 ex., 27. vi. 1965, K. Morimoto (KU) ; Khon Kaen, 3 exs., 20. xii. 1979, 1 ex., 17. i. 1980, S. Azuma ; Nam Proam, 2 exs., 6. i. 1980, S. Azuma (RU) ; Fang Spa, 5 exs., 21. xi. 1968, K. Hatta ; Khon Kaen, 1 ex., 2. x. 1972, M. Sato (EHIME) ; Chiang Dao, 2 exs., 23. iv. 1973, Y. Yoshiyasu ; Amphoe Phan, Chiang Rai, 1 ex., 25. iv. 1978, Y. Yoshiyasu ; Khao Yai, 2 exs., 29-31. i. 1968, K. Baba (KIMOTO) ; Rayong, 14 exs., 27. vii. 1962 ; Choburi, 7 exs., 26. iii. 1962 ; Udon thani, 6 exs., 15. vii. 1958 ; Chiangmai, 2 exs., 17. iv. 1958 ; Tak, 2,800 ft., 1 ex., 20. viii. 1961 (BANGKHEN) ; Chiangmai Prov., Chiangmai, 4 exs., 9. vi. 1965, P. D. Ashlock, 1 ex., 1. xi. 1963, Native collr ; Chiangmai Prov., Fang, 5-600 m, 5 exs., 14. vi. 1965, 5 exs., 13. vi. 1965, 2 exs., 19. iv. 1958, T. C. Maa ; Chiangmai Prov., Chiang Dao, 450 m, 2 exs., 5-11. iv. 1958, T. C. Maa ; Chiangmai Prov., Mae Sa, 1 ex., 16. vi. 1965, P. D. Ashlock ; Chiangmai Prov., Mae Klang, 8 exs., 11. vi. 1965, P. D. Ashlock ; Trang Prov., Khaophapha, Kaochang, 200-400 m, 3 exs., 30-31. xii. 1963, 1 ex., 1. i. 1964, 1 ex., 4. i. 1964, 1 ex., 10. i. 1964, G. A. Samuelson ; Pakchong, 100 m, NE of Bangkok, 1 ex., 1. xii. 1957, J. L. Gressitt, 6 exs., 11. iii. 1964, Native collr ; Nakhon Nayok Prov., Khao Yai Nat. Park, 8 exs., 5. vi. 1965, P. D. Ashlock ; Saraburi Prov., Ban Muak Lek Nat. Park, 3 exs., 6. vi. 1965, P. D. Ashlock ; Saraburi, 2 exs., 4. iii. 1963, Native collr ; Muak Lek, 1 ex., 19. xi. 1963, Native collr ; Chanthaburi, Prew, 45 m, 3 exs., 24. iv.-1. v. 1958, T. C. Maa (BISHOP). CAMBODIA : Kompong Chhnang, 7 m, 1 ex., 25. iv. 1961, N. R. Spencer (BISHOP). LAOS : Umgeb. Vientiane, 3 exs., iii-vi. 1963 ; Umgeb. Paklay, 2 exs., 1963 (MUNCHEN) ; Borikhane Prov., Pakkad- ing, 1 ex., 13. vii. 1965, J. L. Gressitt & K. A. J. Wise, 11 exs., 31. viii. 1965, 34 exs., 15-31. viii. 1965, 12 exs., 9. ix., 79 exs., 15. ix, 1965, 2 exs., x. 1965, Native collr ; Borikhane Prov., Paksane, 1 ex., 17. viii. 1965, 1 ex., 31. viii. 1965, 1 ex., 19. xi. 1965, 2 exs., 13. xii. 1965, 3 exs., 8. xii. 1965, 1 ex., 7. i. 1966, 13 exs., 1. ii. 1966, 3 exs., 8. ii. 1966, Native collr ; Khammouane Prov., Phon Tiou, 1 ex., 10. v. 1965, N. Wilson ; Wapikhamthong Prov., Khong Sedone, 1 ex., 21. ix. 1965, Native collr ; Attopeu Prov., Houei Kong, 2 exs., 31. v. 1965, Native collr ; Sedon Prov., Pakse, 2 exs., 11. v. 1965, 1 ex., 22. v. 1965, 2 exs., 13. v. 1965, 1 ex., 15. v. 1965, 4 exs., 21. v. 1965, 1 ex., 23. v. 1965, P. D. Ashlock ; K. Sedon, 7 exs., 13. x. 1965, Native collr ; Savanakheth, 1 ex., 15. x. 1965, Native collr ; Muong Sing, NW of Luang Prabang, 650 m, 17 exs., 6-10. vi. 1960, S. Quate & L. W. Quate ; Dong Dok, 1 ex., 5. viii. 1965, 1 ex., 7. ix. 1965, 1 ex., 1. xii. 1965, 1 ex., 6. xii. 1965, 2 exs., 8. i. 1966, Native collr ; Nongtevd, 1 ex., 27. vii. 1965, 1 ex., 6. viii. 1965, 1 ex., 30. viii. 1965, 2 exs., 18. xi. 1965, 1 ex., 7. ii. 1966, Native collr (BISHOP). VIETNAM : Vientiane Prov., Vientiane, 1 ex., 8. v. 1965, 2 exs., 26. v. 1965, 2 exs., 27. v. 1965, 1 ex., 28. v. 1965, P. D. Ashlock, 3 exs., 22. vii. 1965, 2 exs., 2. viii. 1965, 4 exs., 3. viii. 1965, 5 exs., 3. ii. 1966, Native collr ; Vientiane Prov., Namgueng River, Phou Kou Khouei, 100 m, 1 ex., 10. iv. 1965, Native collr ; Vientiane Prov., Ban Van Eue, 3 exs., 15-31. v. 1965, 2 exs., 31. xii. 1965, 1 ex., 15. ii. 1965, 1965, 1 ex., 31. xii. 1968, Native collr ; Vientiane, Tha Ngone, 1 ex., 1. ix. 1965, 1 ex., 11. ix. 1963, 1 ex., 20. ix. 1965, 1 ex., 16. xi. 1965, 1 ex., 20. xi. 1965, 1 ex., 25. xi. 1965, 1 ex., 4. xii. 1965, 1 ex., 9. ii. 1966, Native collr ; Ban Me Thuot, 500 m, 2 exs., 16-18. v. 1960, S. Quate ; M'Drak, SE of Ban Me Thuot, 4-600 m, 23 exs., 8-19. xii. 1960, C. M. Yoshimoto ; Dak Song, 76 km SE of Ban Me Thuot, 870

m, 1 ex., 19-21. v. 1960, L. W. Quate ; Dilin (Djiring), 1,200 m, 12 exs., 2'2-28. iv. 1960, S. Quate & L. W. Quate, 1 ex., 27. ix.-14. x. 1960, C. M. Yoshimoto ; 9 km S. of Dilin (Djiring), 3 exs., 24. iv. 1960, R. E. Leech ; Dalat, 6 km S., 1,400-1,500 m, 16 exs., 9. vi.-7. vii. 1961, N. R. Spencer ; 18 km NW of Dalat, 1,300 m, 2 exs., 4-5. v. 1960, L. W. Quate ; Karyu Danar, 200 m, 3 exs., 13-28. ii. 1961, N. R. Spencer ; Fyan, 1,200 m, 1 ex., 11. vii.-9. viii. 1961, N. R. Spencer ; Pleiku, 700 m, 1 ex., 8-14. v. 1960, L. W. Quate ; Mt. Lang Bian, 1,500-2,000 m, 1 ex., 19. v.-8. vi. 1961, N. R. Spencer ; Quang Tri, 2 km N, 1 ex., 9. vi. 1970, A. R. Gillogly (BISHOP).

***Monolepta spenceri* n. sp.** Fig. 43c

Generally yellowish brown, elytron with basal 1/3 and apical 1/3 reddish brown ; head black ; ventral surfaces with metathorax reddish brown ; posterior legs more reddish.

Head with vertex sparsely impressed by fine punctures and their interstices finely wrinkled ; interocular space distinctly narrower than transverse diameter of single oculus, and interocular transverse impression distinct, frontal tubercle subtriangular and distinctly raised. Antenna slender, nearly 2/3 as long as length of body ; first segment long, second shortest, nearly 1/3 as long as first, third as long as second, fourth nearly three times as long as third, fourth to sixth subequal to each other in length and shape, seventh slightly shorter than fifth, and seventh to tenth subequal to each other in length, eleventh subequal to tenth in length but its apex pointed. Pronotum transverse, 1 2/3 times as broad as long, anterior margin nearly straight, lateral margin slightly rounded, widest slightly before middle and slightly narrowed anteriorly and posteriorly, basal margin strongly rounded posteriorly, dorsal surface convex side to side, without any trace of depression laterally, rather closely impressed by fine punctures, and interstices of punctures smooth and shining. Scutellum subtriangular, finely granulate, impunctate. Elytron broader than prothorax, more strongly and closely punctate, and interstices of punctures smooth and shining.

Male : Unknown. **Female** : Fifth abdominal segment entire.

Length : 5.7 mm

Holotype (BISHOP) : VIETNAM : Mt. Lang Bian, 1,500-2,000 m, 19. v.-8. vi. 1961, N. R. Spencer. Paratopotype ; 1 ex., same data as the holotype (KIMOTO). Paratype : VIETNAM : Fyan, 900-1,000 m, 1 ex., 11. vii.-9. viii. 1961, N. R. Spencer (BISHOP).

This new species somewhat resembles *Monolepta hageni* Weise, but differs in having elytron with the apical 1/3 reddish, the head entirely black and antenna and the legs yellowish to reddish brown.

***Monolepta subfasciata* n. sp.** Fig. 43a

Generally yellowish brown, elytron black with a large transverse band covering from sutural to lateral margins yellowish brown ; ventral surfaces entirely black.

Head with vertex slightly wrinkled, sparsely impressed by minute punctures, interocular space distinctly wider than transverse diameter of single oculus, and interocular transverse impression distinct only on median portion, frontal tubercle subtriangular and feebly raised. Antenna slender, nearly 2/3 as long as length of body ; first segment long, second shortest, nearly 2/5 as long as first, third subequal to second in length but slightly slenderer, fourth nearly three times as long as third, and fourth to eighth subequal to each other in length and shape, ninth slightly shorter than eighth, tenth subequal to ninth in length and shape, eleventh slightly longer than tenth and its apex pointed. Pronotum transverse, 1 2/3 times as broad as long, anterior margin slightly rounded posteriorly, lateral margin almost straight, gradually narrowed posteriorly, basal margin distinctly rounded posteriorly, dorsal surface convex side to side, without any trace of depression laterally, sparsely

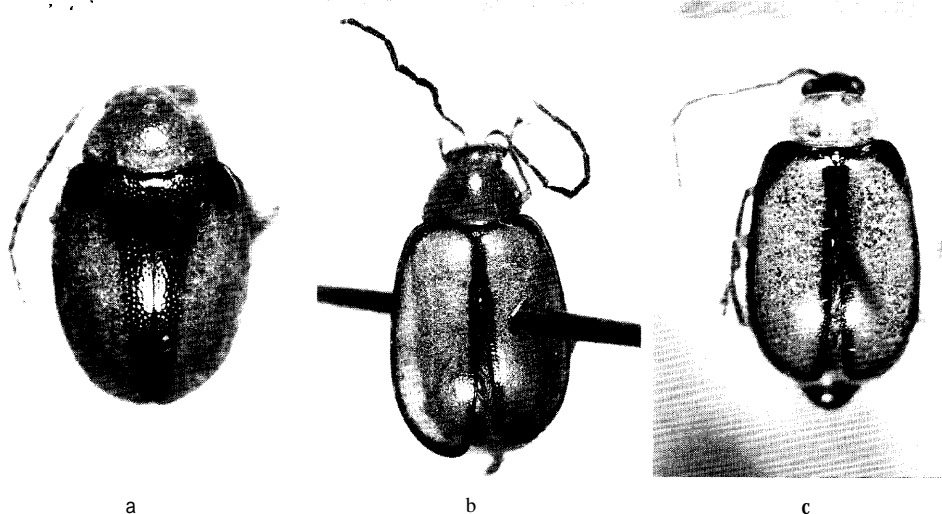


Fig. 44. a, *Monolepta quatei* n. sp. ; b, *M. atrimarginata* n. sp. ; c, *M. dalatica* n. sp.

impressed by distinct punctures, and interstices of punctures smooth, shining. Scutellum subtriangular, smooth, shining, impunctate. Elytron broader than prothorax, more strongly and closely punctate, and interstices of punctures smooth, shining.

Male : Fifth abdominal segment trilobed, median lobe generally flat. **Female** : Fifth abdominal segment entire.

Length : 3.0-3.3 mm.

Holotype (BISHOP) : VIETNAM : Mt. Lang Bian, 1,500-2,000 m, 19. v.-8. vi. 1961, N. R. Spencer. Paratopotypes : 7 exs., same data as the holotype (BISHOP, KIMOTO). Paratypes : LAOS : Namkading, nr. Pakkading, 100 m, 1 ex., 21. iv. 1965, J. L. Gressitt (BISHOP). VIETNAM : 17 km NE of Dalat, 2,000 m, 1 ex., 3. v. 1960, L. W. Quate (BISHOP).

This new species somewhat resembles *Monolepta birmanensis* Jacoby, but differs by the shorter body and having the legs entirely yellowish brown.

***Monolepta subflavipennis* n. sp.** Fig. 37a

Generally reddish brown, prothorax black, head, antenna and legs generally pitchy black.

Head with vertex smooth, shining, sparsely impressed by minute punctures, interocular space subequal to transverse diameter of single oculus, and interocular transverse impression shallower, frontal tubercle subtriangular and distinctly raised. Antenna slender, nearly $\frac{2}{3}$ as long as length of body ; first segment long, second shortest, nearly $\frac{1}{3}$ as long as first, third $1\frac{2}{3}$ times as long as second, fourth $1\frac{1}{2}$ times as long as third, fifth subequal to fourth, sixth to ninth subequal to each other in length and shape, tenth slightly shorter than ninth, eleventh slightly longer than tenth and subequal to ninth in length but its apex pointed. Pronotum transverse, $1\frac{1}{4}$ times as broad as long, anterior margin nearly straight, lateral margin slightly rounded, widest almost at middle, slightly narrowed anteriorly and posteriorly, basal margin strongly rounded posteriorly, dorsal surface convex, with a pair of distinct depressions laterally, sparsely impressed by fine punctures, and interstices of punctures smooth and shining. Scutellum subtriangular, finely granulate, impunctate.

Elytron broader than prothorax, more strongly and closely punctate, and interstices of punctures smooth and shining, and with a shallow transverse furrow subbasally.

Male : Fifth abdominal segment trilobed, median lobe slightly depressed at middle. **Female** : Fifth abdominal segment entire.

Length : 3.8-3.9 mm.

Holotype (BISHOP) : VIETNAM : Fyan, 900-1,000 m, 11. vii.-9. viii. 1961, N. R. Spencer. Paratypes: 3 exs., same data as the holotype (BISHOP, KIMOTO).

This new species resembles *Monolepta langbianica* Kimoto, but differs in being the body length slightly shorter, and having elytron and the ventral surfaces reddish and antenna entirely blackish.

***Monolepta sublata* Gressitt & Kimoto**

Monolepta sublata Gressitt & Kimoto, 1963, Pac. Ins. Mon. 1B: 605, 636 (S. China ; BISHOP).

—Kimoto, 1976, Ent. Rev. Japan, 29 : 6 (Taiwan).

Distribution : Thailand, S. China, Taiwan.

Material examined. THAILAND : Khao Yai Nat. Park, **1 ex.**, 6. vi. 1965, Y. Miyatake (KU) ; Khao Yai, 1 ex., 10. iv. 1968, Native collr (BISHOP).

***Monolepta testacea* (Jacoby)**

Luperodes testacea Jacoby, 1903, Ann. Soc. Ent. Belg., 47 : 119 (India ; BM).

Monolepta testacea : Maulik, 1936, Fauna India, Galeruc.: 428 (India).—Chûjô, 1961, Nature and

Life in SE Asia, Kyoto, 1 : 352 (Thailand, Chiang Mai).

Distribution : India, Thailand.

No additional material was examined.

***Monolepta thailandica* n. sp. Fig. 45a**

Generally yellowish brown, elytron with basal 1/4 and a large subapical marking pitchy black to black, antenna pitchy brown with first and apical three segments reddish brown, ventral surfaces with meso- and metathorax pitchy black ; legs with tibiae and tarsi generally pitchy black.

Head with vertex somewhat wrinkled, sparsely impressed by minute punctures ; interocular space distinctly wider than transverse diameter of single oculus, and frontal tubercle slightly raised but ill-defined, and not delimited posteriorly by transverse depression. Antenna slender, in preapical segments three times as long as wide, nearly 2/3 as long as body length ; first segment long, second shortest, nearly 1/3 as long as first, third slightly longer than second but more slender, fourth 2 1/4 times as long as third, fifth subequal to fourth in length and shape, sixth slightly shorter than fifth, sixth to ninth subequal to each other in length and shape, tenth slightly shorter than ninth, eleventh subequal to ninth in length but its apex pointed. Pronotum transverse, 1 2/5 times as broad as long, anterior margin nearly straight, lateral margin slightly rounded, widest slightly before middle, and slightly narrowed anteriorly and more strongly so posteriorly, basal margin strongly rounded posteriorly, dorsal surface convex side to side, without any trace of depression laterally, sparsely impressed by fine punctures, and interstices of punctures smooth, shining. Scutellum subtriangular, smooth, shining, impunctate. Elytron broader than prothorax, more strongly and closely punctate, and interstices of punctures smooth, shining.

Male : Fifth abdominal segment trilobed, median lobe generally flat. **Female** : Fifth abdominal segment entire.

Length : 3.3 mm.

Holotype (BISHOP) : THAILAND : Trang Prov., Khaophappa, Khaochang, 200-400 m, 30-31. xii. 1963, G. A. Samuelson. Paratypes : THAILAND : Trang Prov., Khaophappa, Khaochong, 200-400 m, 2 exs., 1-3. i. 1964, 3 exs., 10-12. i. 1964, G. A. Samuelson ; Nakhon Nayok Prov., Khao Yai Nat. Park, 1 ex., 6. vi. 1964, P. D. Ashlock (BISHOP) ; Chiangmai Prov., Chiang Dao, 1 ex., 23. iv. 1973, Y. Yoshiyasu (KU) ; Khao Yai, 1 ex., 29-31. i. 1968, K. Baba (KIMOTO).

This new species resembles *Monolepta cambodgia* Laboissière, but differs in having the head generally brownish, and antenna pitchy brown with the first and the apical three segments brownish.

***Monolepta trangica* n. sp.** Fig. 39b

Generally yellowish brown ; elytron with basal, basal 2/3 of lateral and most of sutural margins blackish ; scutellum pitchy black ; ventral surfaces with meso- and metathorax and basal part of first to fourth abdominal segments blackish.

Head with vertex sparsely impressed by minute punctures, surface slightly wrinkled, interocular space subequal to transverse diameter of single oculus, and interocular transverse impression feebly impressed, frontal tubercle subtriangular and distinctly raised. Antenna slender, nearly 2/3 as long as length of body ; first segment long, second shortest, nearly 1/3 as long as first, third slightly longer than second, fourth 2 1/2 times as long as third, fourth to eighth subequal to each other in length and shape, ninth slightly shorter than eighth, tenth subequal to ninth in length and shape, eleventh subequal to tenth in length but its apex pointed. Pronotum transverse, 1 2/3 times as broad as long, anterior margin nearly straight, lateral margin slightly rounded, widest almost at middle, slightly narrowed anteriorly and posteriorly, basal margin strongly rounded posteriorly, dorsal surface convex, with a pair of feeble depressions laterally, sparsely impressed by fine punctures, and interstices of punctures smooth and shining. Scutellum subtriangular, finely granulate, impunctate. Elytron broader than prothorax, more strongly and closely punctate, and interstices of punctures smooth, shining.

Male : Fifth abdominal segment trilobed, median lobe generally flat. **Female** : Fifth abdominal segment entire.

Length : 5.7-6.3 mm.

Holotype (BISHOP) : THAILAND : Trang Prov., Khaophappa, Kaochang, 200-400 m, 13. i. 1964, G. A. Samuelson. Paratopotypes: 3 exs., same data as the holotype (BISHOP, KIMOTO). Paratypes : Same locality and collector as the holotype, 1 ex., 4. i. 1964, 1 ex., 10. i. 1964, 1 ex., 11-12. i. 1964 (BISHOP).

This new species somewhat resembles *Monolepta pallida* (Jacoby), but differs in having elytron with the basal, the basal 2/3 of the lateral and most of the sutural margins blackish.

***Monolepta vietnamica* n. sp.** Fig. 34c

Generally reddish brown ; elytron with basal 2/3 yellowish brown, humerus, basal 1/4 of sutural and basal half of lateral margins and entire basal margin pitchy brown, and apical half blackish brown and gradually becomes paler towards apex ; antenna entirely yellowish brown, legs pitchy black, abdomen entirely yellowish brown.

Head with vertex finely granulate, sparsely impressed by fine punctures, interocular space subequal to transverse diameter of single oculus, and interocular transverse impression distinct, frontal tubercle subtriangular and distinctly raised. Antenna slender, nearly as long as body length ; first segment long, second shortest, nearly 1/3 as long as first, third 1 1/3 times as long as second,

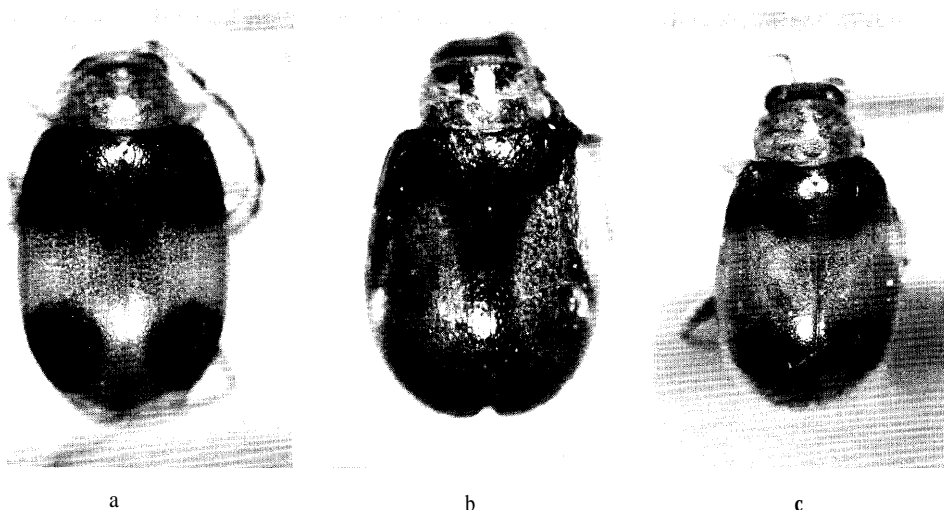


Fig. 45. a, *Monolepta thailandica* n. sp. ; b, *M. exigua* n. sp. ; c, *M. bifasciata* (Hornsted).

fourth nearly twice as long as third, fifth slightly longer than fourth, fifth to eighth subequal to each other in length and shape, ninth slightly shorter than eighth, tenth subequal to ninth in length and shape, eleventh subequal to eighth in length but its apex pointed. Pronotum transverse, 1 1/2 times as broad as long, anterior margin nearly straight, lateral margin nearly straight, widest slightly behind anterior corner and slightly narrowed posteriorly, basal margin rounded posteriorly and almost straight at middle, dorsal surface convex, with a pair of shallow depressions laterally and a slight convexity at middle of anterior margin, closely impressed by strong punctures, and interstices of punctures smooth, slightly convex. Scutellum subtriangular, smooth, shining, impunctate. Elytron broader than prothorax, closely impressed by distinct punctures, and their interstices smooth, shining.

Male : Elytron with an elongate fovea contiguous to suture ; fifth abdominal segment trilobed, median lobe slightly depressed as a whole. **Female** : Elytron normal ; fifth abdominal segment entire.

Length: 4.1-4.5 mm.

Holotype (BISHOP) : VIETNAM : Dalat, 6 km S., 1,400-1,500 m, 9. vi.-7. vii. 1961, N. R. Spencer. Paratopotypes : 3 exs., same data as the holotype (BISHOP). Paratypes : VIETNAM : Fyan, 900-1,200 m, 3 exs., 11. vii.-9. viii. 1961, N. R. Spencer (BISHOP, KIMOTO).

This new species resembles *Monolepta discoidalis* (Jacoby), but differs in having pronotum more transverse and the surface more strongly and closely punctate.

Monolepta wilsoni n. sp. Fig. 35c

Generally yellowish brown, head pitchy brown, elytron yellowish to reddish brown, with basal, lateral, sutural and apical margins narrowly black, and with six discal markings (2 : 2 : 2) black, ventral surfaces with meso- and metathorax and fifth abdominal segment pitchy brown, antenna pitchy brown, legs with tibiae and tarsi pitchy brown.

Head with vertex very finely granulate, sparsely impressed by distinct punctures, interocular space distinctly narrower than transverse diameter of single oculus, and interocular transverse impression distinct, frontal tubercle subtriangular and distinctly raised. Antenna slender, nearly 2/3 as long as body length ; first segment long, second shortest, nearly 1/4 as long as first, third 1 1/2 times

as long as second, fourth nearly $2 \frac{1}{2}$ times as long as third, fifth slightly longer than fourth, fifth to seventh subequal to each other in length and shape, eighth slightly shorter than seventh, ninth subequal to eighth in length and shape, tenth slightly shorter than ninth, and eleventh longer than tenth, and subequal to ninth in length but its apex pointed. Pronotum transverse, $1 \frac{2}{3}$ times as broad as long, anterior margin nearly straight, lateral margin slightly rounded, widest at $\frac{1}{3}$ from anterior margin, and slightly narrowed anteriorly and more strongly so posteriorly, basal margin strongly rounded posteriorly, dorsal surface convex, with a pair of deep oblique depressions laterally, sparsely impressed by distinct punctures, and interstices of punctures finely granulate. Scutellum subtriangular, finely granulate, impunctate. Elytron broader than prothorax, sparsely impressed by distinct punctures, and interstices of punctures finely granulate.

Length : 4.2 mm.

Holotype (BISHOP) : LAOS : Khammouane Prov., Phon Tiou, 13. iv. 1965, N. Wilson. Paratypes: THAILAND: Chiangmai Prov., Doi Suthep, 1,000 m, 1 ex., 18. vi. 1965, Y. Miyatake (KU). LAOS : Khammouane Prov., Phon Tiou, 1 ex., 10. vi. 1965, N. Wilson (KIMOTO).

This new species is characteristic in having elytron yellowish brown with the margins and the discal six markings blackish.

Monolepta zonalis Gressitt & Kimoto

Monolepta zonalis Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B: 638 (SW China, Vietnam; BISHOP).

Distribution : Laos, Vietnam, SW China.

Material examined. LAOS : Umgeb. Vientiane, 3 exs., iii-vi. 1963 ; Umgeb. Paklay, 1 ex., 1963 (MUNCHEN).

Monolepta zonula Weise

Monolepta albofasciata Jacoby, 1889, Ann. Mus. Civ. Genova, 27 : 228 (nec *Monolepta albofasciata*



Fig. 46. a, *Liroetoides fulvus* n. sp. ; b, *Sermylodes maculatipennis* n. sp. ; c, *S. major* n. sp.

Jacoby, 1884, from Java) (Burma ;GENOVA).—Allard, 1891, Nouv. Arch. Mus. Paris., ser. 3, 3: 231 (Luang-Prabang à Theng) ; 1904, Miss. Pavie Indo-Chine, 3 : 160 (Cambodge ; Siam, Chantaboun à Battambang).

Monolepta fasciatipennis Jacoby, 1892, Ann. Mus. Civ. Genova, 32 : 983 (Burma ; GENOVA).—Maulik, 1936, Fauna India, Galeruc. : 413 (= *albofasciata*).

Monolepta zonula Weise, 1916, Dtshe Ent. Z., 1916 : 40 (new name for *Monolepta albofascifata* Jacoby, 1889, nec 1884).—Maulik, 1936, Fauna India, Galeruc. : 413 (Burma).

Distribution : Burma, Cambodia, Laos.

No material was examined.

Genus Liroetoides n. gen.

Antennal insertions distinctly separated by frons ; labrum rounded, truncate apically, frontal tubercles contiguous ; gena 1/4 as deep as oculus ; third antennal segment much longer than second ; prothorax with anterior margin not marginate and lateral and basal margins entirely marginate, dorsal surface convex with a pair of feeble depressions laterally ; elytron with punctures irregularly impressed, without distinct subbasal furrow subbasally, epipleuron wide at base and gradually narrowed posteriorly ; prosternal process not elevated between anterior coxae ; anterior coxal cavity closed posteriorly ; middle and posterior tibiae with many short spines apically ; tarsal claws appendiculate and first tarsal segment of posterior leg distinctly longer than length of second and third segments combined.

Type species : *Liroetoides fulvus* Kimoto.

This genus somewhat resembles *Liroetis* Weise, but differs in having the anterior coxal cavity closed posteriorly and the anterior margin not marginate. From *Dercetina* Gressitt & Kimoto, differs in having the first tarsal segments of posterior leg longer than the following segments combined.

Liroetoides fulvus n. sp. Fig. 46a

Entirely yellowish brown.

Head with vertex smooth, shining, sparsely impressed by minute punctures, interocular space much narrower than transverse diameter of single oculus, and interocular transverse impression distinct, frontal tubercle elongate, subtriangular, contiguous, distinctly raised, surface smooth, shining, impunctate. Antenna slender, nearly as long as body length ; first segment long, robust, club-shaped, second nearly 2/5 as long as first, third 3 2/3 times as long as second, fourth slightly longer than third, fourth to seventh subequal to each other in length and shape, eighth slightly shorter than seventh, ninth subequal to eighth in length and shape, eleventh subequal to ninth in length but its apex pointed. Pronotum transverse, 1 2/3 times as broad as long, anterior margin slightly rounded posteriorly, lateral margin distinctly rounded, widest slightly before middle, and distinctly narrowed anteriorly and posteriorly, basal margin slightly rounded posteriorly, anterior corner thickened, produced laterally, and posterior corner angulate ; dorsal surface convex, with a pair of feeble depressions laterally, smooth, shining, sparsely impressed by distinct punctures and rather closely by minute ones. Scutellum subtriangular, finely granulate, impunctate. Elytron with lateral margin subparallel-sided, apex rounded, surface strongly and rather closely punctate and their interstices smooth, shining.

Length : 8.8-9.8 mm.

Holotype (BISHOP) : VIETNAM : Fyan, 900-1,000 m, 11. vii.-9. viii. 1961, N. R. Spencer. Paratopotypes : 12 exs., same data as the holotype (BISHOP, KIMOTO). Paratypes : VIETNAM : Dalat,

6 km S., 1,400–1,500 m, 5 exs., 9. vi.–7. vii. 1961, N. R. Spencer (BISHOP).

This new species somewhat resembles *Mimastra gracilis* Baly, from Kashgar, but differs in having the anterior coxal cavity closed posteriorly and the ventral surfaces entirely yellowish brown.

Genus **Sermyloides** Jacoby

Sermyloides Jac., 1884, Notes Lyden Mus., 6: **24** (type : *Sermyloides basalis* Jacoby ; Sumatra).

—Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B : **639**,

Praeochrælea Duvivier, 1885, Stett. Ent. Ztg., 46 : 245 (type : *Praeochrælea antennalis* Duvivier ; Philippines).

KEY TO SPECIES OF *Sermyloides*

- | | | |
|------|---|-----------------------|
| 1 | Ventral surfaces partly blackish | 2 |
| | Ventral surfaces entirely brownish | 3 |
| 2(1) | Metathorax black ; generally reddish brown, antenna black with basal segments brownish, legs with posterior femur and tibia black ; elytron black with apical part reddish brown, in some specimen blackish only on basal 1/4 ; length 5.0–5.7 mm | <i>variabilis</i> |
| | Metathorax and abdomen black ; generally reddish brown, antenna yellowish brown, legs with posterior femur black ; length 7.8–8.3 mm | <i>major</i> |
| 3(1) | Elytron partly blackish | 4 |
| | Elytron entirely yellowish to reddish brown ; generally yellowish to reddish brown ; antenna black with basal one or two segments in part brownish ; length 5.7–6.3 mm | <i>coomani</i> |
| 4(3) | Elytron yellowish brown with margins and a transverse band at middle blackish ; generally reddish brown, scutellum blackish, antenna generally pitchy black with basal segments brownish ; legs pitchy black with femora dark reddish brown ; length 4.8–5.3 mm | <i>maculatipennis</i> |
| | Elytron reddish brown with apical portion blackish ; generally yellowish brown ; length 4.5–5.0 mm | <i>apicalis</i> |

Sermyloides apicalis Laboissière

Sermyloides apicalis Lab., 1936, Ann. Soc. Ent. France, 105 : 258 (Tonkin ; HAMBURG).

Distribution : Vietnam.

No additional material was examined beside the type series.

Sermyloides coomani Laboissière

Sermyloides coomani Lab., 1936, Ann. Soc. Ent. France, 105 : 256 (Tonkin ; HAMBURG).—Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B: 641 (Vietnam).

Distribution : Thailand, Laos, Vietnam.

Material examined. THAILAND: Khon Kaen, 1 ex., 24. vii. 1980, S. Azuma (RU). LAOS : Vientiane Prov., Ban Van Eue, 1 ex., 15–31. v. 1965, J. A. Rondon, 1 ex., 15–31. vii. 1965, Native collr (BISHOP).

Sermyloides maculatipennis n. sp. Fig. 46b

Generally reddish brown, elytron yellowish brown with basal, lateral, sutural and apical margins and a transverse band at middle black ; antenna pitchy black with one or two basal segments reddish brown ; legs pitchy black with femora dark reddish brown.

Head with vertex finely granulate, sparsely impressed by minute punctures, interocular space distinctly wider than transverse diameter of single oculus, and interocular transverse impression distinct, frontal tubercle subtriangular, transverse, contiguous, distinctly raised, surface finely granulate. Antenna slender, nearly $\frac{2}{3}$ as long as length of body ; first segment long, second shortest, nearly $\frac{1}{5}$ as long as first, third four times as long as second, fourth $\frac{3}{4}$ as long as third, fifth slightly shorter than fourth, fifth to eighth subequal to each other in length and shape, ninth slightly shorter than eighth, tenth subequal to ninth in length, eleventh subequal to eighth in length but its apex pointed. Pronotum transverse, $2\frac{2}{5}$ times as broad as long, anterior margin slightly rounded posteriorly, lateral margin slightly rounded, widest almost at base, slightly narrowed anteriorly, basal margin distinctly rounded posteriorly and nearly straight at middle, dorsal surface convex side to side, sparsely impressed by distinct punctures, and interstices of punctures finely granulate. Scutellum subtriangular, finely granulate, impunctate. Elytron gradually widened posteriorly, apex rounded, more strongly and closely punctate, and interstices of punctures finely granulate.

Male : Head with clypeus widely depressed at middle ; fifth abdominal segment with a pair of short notches apically. **Female** : Head with clypeus convex ; fifth abdominal segment entire.

Length : 4.8-5.3 mm.

Holotype (BISHOP) : LAOS : Vientiane Prov., Ban Van Eue, 29. iv. 1966, Native collr. Paratypes : 1 ex., same data as the holotype, but 1-15. v. 1965, J. A. Rondon ; Sayaboury Prov., Sayaboury, 1 ex., 15. iv. 1965 Native collr (BISHOP, KIMOTO).

This new species resembles *Sermyloides apicalis* Laboissière but differs in having elytron yellowish brown with the margins and a transverse band at middle blackish.

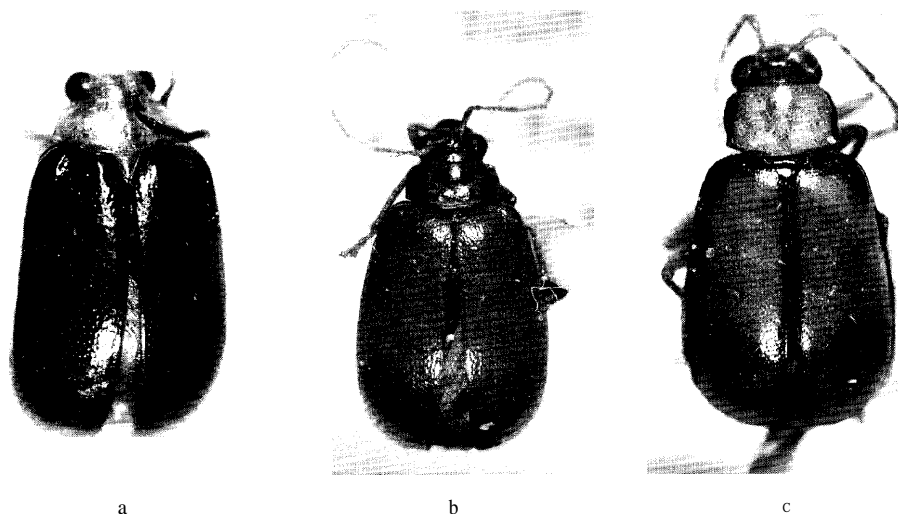


Fig. 47. a, *Sermyloides variabilis* n. sp. ; b, *Paleosepharia unicolor* n. sp. ; c, *P. tenasserimensis* (Maulik).

***Sermyloides major* n. sp.** Fig. 46c

Generally reddish brown, ventral surfaces with metathorax and abdomen black ; legs with posterior femur black.

Head with vertex finely granulate, sparsely impressed by fine punctures, interocular space distinctly wider than transverse diameter of single oculus, and interocular transverse impression distinct, frontal tubercle subtriangular, contiguous, distinctly raised. Antenna slender, nearly $2/3$ as long as body length ; first segment long, second shortest, nearly $1/5$ as long as first, third five to six times as long as second, fourth slightly shorter than third, fifth slightly shorter than fourth, fifth to seventh subequal to each other in length and shape. Pronotum transverse, $2 \frac{1}{3}$ times as broad as long, anterior margin distinctly narrowed posteriorly, lateral margin slightly rounded, widest almost at base, distinctly narrowed anteriorly, basal margin strongly rounded posteriorly, dorsal surface convex side to side, without any trace of depression, sparsely impressed by fine punctures, and interstices of punctures finely granulate. Scutellum subtriangular, finely granulate, sparsely covered by fine setae. Elytron gradually widened posteriorly and its apex rounded, strongly and rather closely punctate, and interstices of punctures somewhat wrinkled.

Male : Head with frons depressed as a whole ; third antennal segment widened subbasally ; fifth abdominal segment with a pair of short notches apically. **Female** : **Head** with frons convex ; antenna normal ; fifth abdominal segment entire.

Length : 7.8-8.3 mm.

Holotype (BISHOP) : CAMBODIA: Kiri Rom, 700 m, 31. iii.-7. iv. 1961, N. R. Spencer. Paratopotype : 1 ex., same data as the holotype (KIMOTO).

This new species resembles *Sermyloides coomani* Laboissière, but differs in being the body length longer, and having mesothorax, the abdomen and the posterior femur blackish.

***Sermyloides varia bilis* n. sp.** Fig. 47a

Generally reddish brown; elytron black with apical part reddish brown, in some specimen blackish only on basal $1/4$; antenna black with one or two basal segments reddish brown ; ventral surfaces with metathorax black, legs with posterior femur and tibia black.

Head with vertex finely granulate, sparsely impressed by fine punctures, interocular space distinctly wider than transverse diameter of single oculus, interocular transverse impression obsolete, frontal tubercle subtriangular, contiguous, feebly raised, surface finely granulate. Antenna slender ; first segment long, second shortest, nearly $1/6$ as long as first, third seven times as long as second, fourth slightly shorter than third, fifth slightly shorter than fourth, sixth subequal to fifth in length and shape. Pronotum transverse, $2 \frac{1}{4}$ times as broad as long, anterior margin slightly rounded posteriorly, lateral margin nearly straight, widest almost at base, distinctly narrowed anteriorly, basal margin strongly rounded posteriorly, dorsal surface convex side to side, sparsely impressed by distinct punctures, and interstices of punctures finely granulate. Scutellum subtriangular, finely granulate, covered by fine setae. Elytron gradually widened posteriorly and rounded at apex, more strongly and closely punctate, and interstices of punctures somewhat wrinkled.

Male : Antenna with third segment curved at middle ; fifth abdominal segment with a pair of short notches apically. **Female** : Antenna normal ; fifth abdominal segment entire.

Length : 5.0-5.7 mm.

Holotype (BISHOP) : VIETNAM : Fyan, 900-1,000 m, 11. vii.-9. viii. 1961, N. R. Spencer. Paratopotype : 1 ex., same data as the holotype (KIMOTO).

This new species somewhat resembles *Sermyloides maculatipennis* Kimoto, but differs in having

metathorax blackish and in the male antenna with the third segment curved.

Genus **Paleosepharia** Laboissière

Paleosepharia Lab., 1936, Ann. Soc. Ent. France, 105 : 251 (type : *Paleosepharia truncata* Laboissière ; Cochin China ; monobasic).-Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B : 644.

KEY TO SPECIES OF *Paleosepharia*

- 1 Legs generally yellowish brown 2
 Legs yellowish brown with tibiae and tarsi blackish ; elytron yellowish brown with humeral and postmedian transverse markings, together with basal, sutural and lateral margins narrowly, blackish ; in some specimen postmedian elytral marking somewhat ill-defined ; generally yellowish brown with metathorax, tibiae, tarsi, and lateral margin of pronotum blackish ; antenna pitchy black with basal segments brownish ; 4.8 mm *tenasserimensis*
- 2(1) Pronotum brownish 3
 Pronotum pitchy black ; generally yellowish brown ; head, thorax and fifth abdominal segment pitchy black ; length 4.2-5.0 mm *nigricolis*
- 3(2) Scutellum black 4
 Scutellum yellowish to reddish brown 5
- 4(3) Elytron dark brown with humeral and postbasal depression areas somewhat paler ; generally yellowish brown, with metathorax blackish ; in male elytron with deep postbasal depression distinct and curving obliquely outward posteriorly ; length 4.5 mm *piceipennis*
 Elytron yellowish brown with basal margin and interior margin of epipleuron, in some cases lateral margin also, blackish basally ; generally yellowish brown ; meso- and metathorax black, in some specimen reddish brown ; in male elytron with postbasal depression indistinct and only slightly depressed along suture subbasally ; length 4.2-6.6 mm *scutellaris*
- 5(3) Body length shorter than 6.5 mm 6
 Body length longer than 6.5 mm ; in male elytron with postbasal depression curving obliquely outward posteriorly and median lobe of fifth abdominal segment with a deep longitudinal sulcus at middle ; generally yellowish brown with metathorax reddish brown to black ; length 6.8-8.1 mm *truncata*
- 6(5) Ventral surfaces entirely yellowish brown 7
 Ventral surfaces not entirely yellowish brown 8
- 7(6) Pronotum nearly 1 1/2 times as wide as long, and anterior margin nearly straight ; generally yellowish brown ; length 4.8 mm *fulva*
 Pronotum 2 1/2 times as wide as long, and anterior margin distinctly rounded posteriorly ; generally yellowish to reddish brown ; length 4.5-6.6 mm* *unicolor*
- 8(6) In male elytron with postbasal depression curving obliquely outward posteriorly and median lobe of fifth abdominal segment with a pair of short longitudinal costae basally and their interstices distinctly depressed ; generally yellowish brown, elytron yellowish brown with basal margin and interior margin of epipleuron infusate, metathorax reddish brown ; length 5.0-6.3 mm *persimilis*
 In male elytron with postbasal depression subparallel to suture and closely situated,

and median lobe of fifth abdominal segment feebly depressed apically; generally yellowish brown, metathorax and basal part of interior margin of elytral epipleuron blackish; length 4.7-5.7 mm*fulvicornis*

***Paleosepharia fulva* n. sp.** Fig. 49c

Entirely yellowish brown.

Head with vertex finely granulate, sparsely impressed by fine punctures; interocular space subequal to transverse diameter of single oculus, and interocular transverse impression distinct, frontal tubercles subtriangular, contiguous, distinctly raised, surface granulate. Antenna slender, nearly as long as length of body; first segment long, second shortest, nearly $1/3$ as long as first, third $1\frac{1}{3}$ times as long as second, fourth $2\frac{1}{2}$ times as long as third, fifth slightly longer than fourth, fifth to eighth subequal to each other in length and shape, ninth slightly shorter than eighth, tenth subequal to ninth in length and shape, eleventh subequal to eighth in length but its apex pointed. Pronotum transverse, $1\frac{2}{5}$ times as broad as long, anterior margin nearly straight, lateral margin slightly rounded, widest slightly before middle, and slightly narrowed anteriorly and posteriorly, basal margin feebly rounded posteriorly, dorsal surface convex with a feeble depression at middle, rather closely impressed by fine punctures, and interstices of punctures finely granulate. Scutellum subtriangular, finely granulate, impunctate. Elytron with lateral margin rounded, strongly and closely punctate, and interstices of punctures finely granulate.

Male: Fifth abdominal segment trilobed, median lobe generally flat. **Female**: Fifth abdominal segment entire.

Length: 4.8 mm.

Holotype (BISHOP): VIETNAM: Blao (Balao), 500 m, 14-21. x. 1960, C. M. Yoshimoto. Paratopotype: 1 ex., same data as the holotype (KIMOTO). Paratypes: VIETNAM: Fyan, 1,200m, 2 exs., 11. vii.-9. viii, 1961, N. R. Spencer (BISHOP).

This new species resembles *Paleosepharia fulvicornis* Chen, but differs in having meso- and metathorax entirely yellowish brown and pronotum with a feeble depression at middle.

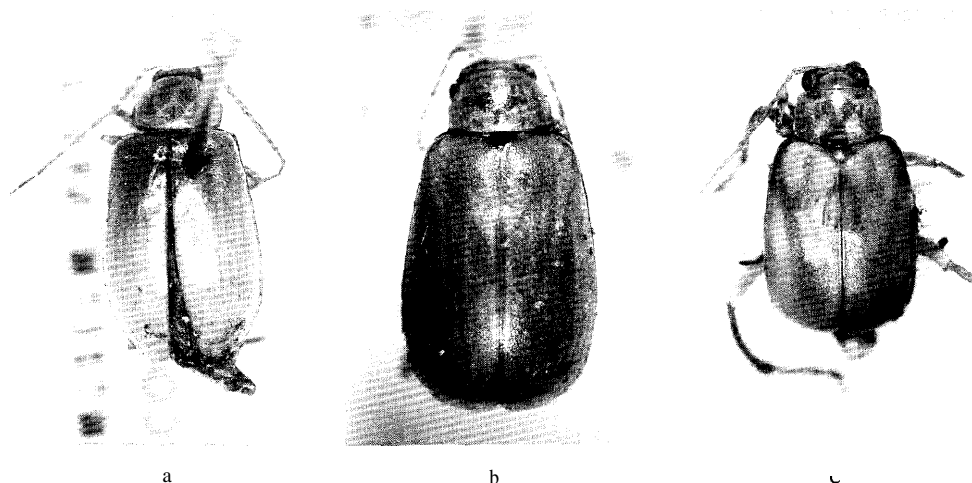


Fig. 48. a, *Paleosepharia truncata* Laboissière; b, *P. scutellaris* n. sp.; c, *P. persimilis* n. sp.

***Paleosepharia fulvicornis* Chen**

Paleosepharia fulvicornis Chen, 1942, Notes d'Ent. Chinoise, 9: 51 (China: Chekiang).-Gressitt &

Kimoto, 1963, Pac. Ins. Mon., 1B: 644, 647 (China).

Distribution: Vietnam, China.

Material examined. VIETNAM: Dalat, 1,500 m, 1 ex., 29. iv.-4. v. 1960, L. W. Quate; Fyan, 1,200 m, 1 ex., 11. vii.-9. viii. 1961, N. R. Spencer (BISHOP).

***Paleosepharia nigricollis* n. sp.** Fig. 49b

Generally yellowish brown, head, thorax, and fifth abdominal segment pitchy black.

Head with vertex finely granulate, sparsely impressed by distinct punctures, interocular space distinctly wider than transverse diameter of single oculus, and interocular transverse impression distinct, frontal tubercle subtriangular, contiguous, distinctly raised. Antenna slender, nearly as long as length of body; first segment long, second shortest, nearly $1/4$ as long as first, third $1\frac{2}{3}$ times as long as second, fourth twice as long as third, fourth to eighth subequal to each other in length and shape, ninth slightly shorter than eighth, tenth subequal to ninth in length and shape, eleventh subequal to eighth in length but its apex pointed. Pronotum transverse, twice as broad as long, anterior margin slightly rounded posteriorly, lateral margin slightly rounded, widest almost at middle, slightly narrowed anteriorly and more strongly so posteriorly, basal margin distinctly rounded posteriorly, dorsal surface convex with a shallow transverse depression at middle, sparsely impressed by distinct punctures, and interstices of punctures finely granulate. Scutellum subtriangular, finely granulate, impunctate. Elytron with lateral margin subparallel-sided, more strongly and closely punctate, and interstices of punctures finely granulate.

Length: 4.2-5.0 mm.

Holotype (Type No. 2704, Kyushu Univ.): THAILAND: Chiangmai Prov., Fang, 14. vi. 1965, Y. Miyatake. Paratypes: THAILAND: Chiangmai Prov., Doi Suthep, 1,000 m, 1 ex., 18. vi. 1965, Y. Miyatake (KU); Khon Kaen, 1 ex., 24. vii. 1980, 1 ex., 7. x. 1981, S. Azuma (RU, KIMOTO).

This new species somewhat resembles *Paleosepharia scutellaris* Kimoto, but differs in having pronotum pitchy black, more wider, and with a transverse depression at the middle.

***Paleosepharia persimilis* n. sp.** Fig. 48c

Generally yellowish brown, elytron with basal margin and interior margin of epipleuron infuscate, metathorax reddish brown.

Head with vertex smooth, shining, sparsely impressed by fine punctures, interocular space slightly wider than transverse diameter of single oculus, and interocular transverse impression distinct, frontal tubercle subtriangular, contiguous, slightly raised. Antenna slender, nearly as long as body length; first segment long, second shortest, nearly $1/3$ as long as first, third $1\frac{1}{2}$ times as long as second, fourth nearly twice as long as third, fourth to eighth subequal to each other in length and shape, ninth slightly shorter than eighth, tenth subequal to ninth in length and shape, eleventh subequal to eighth in length but its apex pointed. Pronotum transverse, $1\frac{2}{3}$ times as broad as long, anterior margin nearly straight, lateral margin slightly rounded, widest slightly before middle, and slightly narrowed anteriorly and posteriorly, basal margin slightly rounded posteriorly, and almost straight at middle, dorsal surface convex with a shallow depression at middle, sparsely impressed by distinct punctures, and interstices of punctures finely granulate. Scutellum subtriangular, finely granulate, impunctate. Elytron with lateral margin rounded, more strongly and closely punctate, and

interstices of punctures smooth, shining.

Male : Elytron with postbasal depression curving obliquely outward posteriorly ; fifth abdominal segment trilobed and median lobe of fifth abdominal segment with a pair of short longitudinal costae basally and their interstices distinctly depressed. **Female** : Elytron normal ; fifth abdominal segment entire.

Length : 5.0—6.3 mm.

Holotype (BISHOP) : LAOS : Sayaboury Prov., Sayaboury, 16. iv. 1965, J. L. Gressitt. Paratypes : THAILAND: Chiengmai, Ban-Tin-Doi, 350 m, 1 ex., 13. vii. 1957, J. L. Gressitt (BISHOP) ; Chiengmai Prov., Doi Pui, 1 ex., 8. vi. 1965, Y. Miyatake (KU). LAOS : 2 exs., same data as the holotype but 15. iv. 1965 ; Vientiane Prov., Vientiane, 8 exs., 22. vii. 1965, Native collr ; Phou-kow-kuei, N. of Vientiane, 2 exs., 16-17. iv. 1965, J. L. Gressitt ; Vientiane Prov., Ban Van Eue, 2 exs., 31. viii. 1965, Native collr ; Borikhane Prov., Pakkading, 1 ex., 23. iv. 1965, 2 exs., 13. vii. 1965, J. L. Gressitt (BISHOP). VIETNAM : Fyan, 900-1,200 m, 3 exs., 11. vii.-9. viii. 1961, N. R. Spencer (BISHOP).

This new species resembles *Paleosepharia scutellaris* Kimoto, but differs in having metathorax reddish brown, and in male elytron with a postbasal depression deeper and curving obliquely outward posteriorly.

***Paleosepharia piceipennis* n. sp.** Fig. 49a

Generally yellowish brown, elytron dark brown with humeral and postbasal areas somewhat paler, scutellum pitchy black ; ventral surfaces with metathorax pitchy brown to black.

Head with vertex somewhat wrinkled, sparsely impressed by fine punctures ; interocular space distinctly wider than transverse diameter of single oculus, and interocular transverse impression feeble, frontal tubercle subtriangular, contiguous, slightly raised, surface finely granulate. Antenna slender, nearly as long as length of body ; first segment long, second shortest, nearly 1/3 as long as first, third 1 2/5 times as long as second, fourth 2 1/2 times as long as third, fifth to ninth subequal to each other in length and shape. Pronotum transverse, 1 2/3 times as broad as long, anterior margin nearly straight, lateral margin slightly rounded, widest almost at middle, slightly narrowed anteriorly and posteriorly, basal margin distinctly rounded posteriorly, dorsal surface convex with a pair of shallow depressions laterally, sparsely impressed by fine punctures, and interstices of punctures finely granulate. Scutellum subtriangular, finely granulate, impunctate. Elytron with lateral margin slightly rounded, strongly and closely punctate, and interstices of punctures smooth, shining.

Male : Elytron with deep postbasal depression distinct and curving obliquely outward posteriorly ; fifth abdominal segment trilobed, median lobe generally flat. **Female** : Elytron normal ; fifth abdominal segment entire.

Length : 4.5 mm.

Holotype (BISHOP) : LAOS : Sayaboury Prov., Sayaboury, 25. iii. 1966, Native collr. Paratopotype: 1 ex., same data as the holotype (KIMOTO). Paratype : LAOS : Sayaboury Prov., Sayaboury, 1 ex., 13. iv. 1966, Native collr (BISHOP).

This new species somewhat resembles *Paleosepharia persimilis* Kimoto, but differs in having elytron generally dark brown with the humeral and the postbasal areas paler.

***Paleosepharia scutellaris* n. sp.** Fig. 48b

Monolepta piceicollis : Chûjô, 1964, Nature and Life in SE Asia, Kyoto, 3 : 295 (Thailand : Chiegm-
mai).

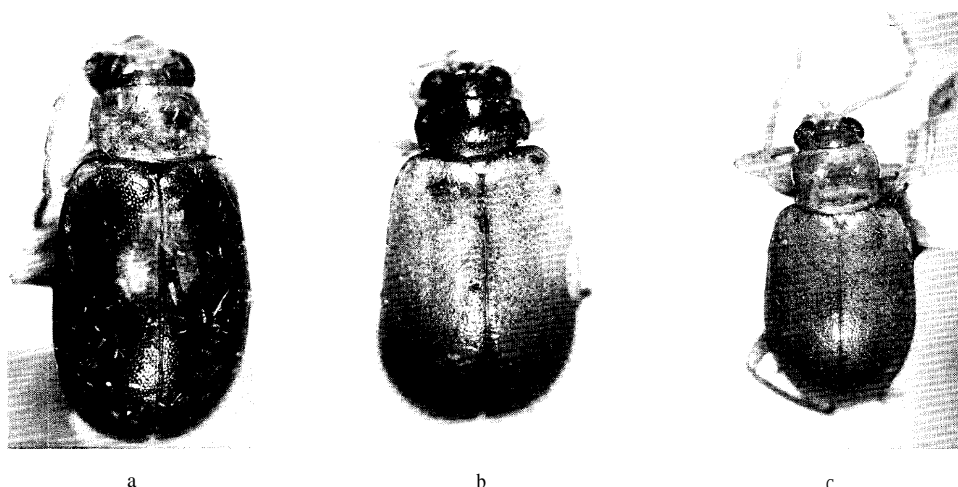


Fig. 49. a, *Paleosepharia piceipennis* n. sp. ; b, *P. nigricollis* n. sp. ; c, *P. fulva* n. sp.

Generally yellowish brown, scutellum black, elytron with basal margin blackish, and interior margin of epipleuron, in some cases lateral margin also, blackish basally, antenna entirely yellowish brown, in some specimen apex of eleventh segment infusate ; ventral surfaces with meso- and metathorax black, in some specimen reddish brown.

Head with vertex finely granulate, sparsely impressed by fine punctures, interocular space distinctly wider than transverse diameter of single oculus, and interocular transverse impression distinct, frontal tubercle subtriangular, contiguous, distinctly raised, surface finely granulate. Antenna slender, nearly $2/3$ as long as length of body ; first segment long, second shortest, nearly $1/3$ as long as first, third $2\frac{1}{2}$ times as long as second, fourth $1\frac{1}{4}$ times as long as third, fourth to seventh subequal to each other in length and shape, eighth slightly shorter than seventh, eighth to tenth subequal to each other in length and shape, eleventh subequal to tenth in length but its apex pointed. Pronotum transverse, $1\frac{1}{2}$ times as broad as long, anterior margin nearly straight, lateral margin slightly rounded, widest almost at middle, slightly narrowed anteriorly and posteriorly, basal margin distinctly rounded posteriorly, dorsal surface convex, with a pair of shallow depressions laterally, closely impressed by fine punctures, and interstices of punctures finely granulate. Scutellum subtriangular, finely granulate, impunctate. Elytron with lateral margin rounded, strongly and rather closely punctate, and interstices of punctures smooth, shining.

Male : Elytron with postbasal depression indistinct and only slightly depressed along suture subbasally ; fifth abdominal segment trilobed, median lobe generally flat. Female : Elytron normal ; fifth abdominal segment entire.

Length : 4.2-6.6 mm.

Holotype (BISHOP) : VIETNAM : Dalat, 1,500 m, 29. iv.-4. v. 1960, L. W. Quate. Paratopotypes : 9 exs., same data as the holotype (BISHOP, KIMOTO). Paratypes : THAILAND : Chiangmai Prov., Doi Suthep, 1,000 m, 1 ex., 8. vi. 1965, S. Asahina (KU) ; Chiangmai Prov., Ban-tin-doi, 350 m, 1 ex., 13. xi. 1957, J. L. Gressitt (BISHOP). CAMBODIA : Kiri Rom, 700 m, 1 ex., 31. iii.-7. iv. 1961, N. R. Spencer (BISHOP) ; Pailin, 1 ex., 26. xi. 1962, Maejima (OMNH). LAOS : Sayaboury Prov., Sayaboury, 5 exs., 15-16. iv. 1965, J. L. Gressitt, 2 exs., 2. iii. 1966, 1 ex., 25. viii. 1966, Native collr ; Vientiane Prov., Ban Van Eue, 3 exs., 12-13. iv. 1965, J. L. Gressitt, 1 ex., 15-31. iv. 1965, 3 exs., 15. xi.

1966, Native collr (BISHOP) ; Umgeb. Vientiane, 3 exs., iii-vi. 1963 (MUNCHEN). VIETNAM : Dalat, 1,500 m, 1 ex., 29. iv.-4. v. 1960, S. Quate ; 15 km NW of Dalat, 1,850 m, 2 exs., 5. v. 1960, L. W. Quate ; 20 km S., Dalat, 1,300 m, 1 ex., 12. ix. 1960, J. L. Gressitt ; 20 km N. of Pleiku, 650 m, 1 ex., 9. v. 1960, L. W. Quate ; 24 km E. of Dilinh (Djiring), 900 m, 1 ex., 25. iv. 1960, R. E. Leech ; Ap Hung-Lam, 21 km NW of Dilinh, 1,100 m, 1 ex., 29. ix.-9. x. 1960, C. M. Yoshimoto (BISHOP).

This new species resembles *Paleosepharia fulva* Chen, but differs in having scutellum and meso- and metathorax blackish.

***Paleosepharia tenasserimensis* (Maulik), new combination** Fig. 47c

Monolepta tenasserimensis Maulik, 1936, Fauna India, Galeruc. : 393 (Burma : Tenasserim ; BM).

Distribution : Burma, Thailand.

Material examined. THAILAND : Trang Prov., Khaophapha, Khaochong, 200-400 m, 5 exs., 11. i. 1964, G. A. Samuelson ; Chiangmai, 1,000-1,500 m, 1 ex., no date, 1966, J. Sedlacek (BISHOP) ; Khao Chong, nr. Trang, 2 exs., 25. vi. 1965, Y. Miyatake (KU). LAOS : Khammouane Prov., Phon Tiou, 1 ex., 11. vi. 1965, N. Wilson (BISHOP) ; Umgeb. Vanky, 1 ex., 1963 (MUNCHEN).

***Paleosepharia truncata* Laboissière** Fig. 48a

Paleosepharia truncata Lab., 1936, Ann. Soc. Ent. France, 105 : 252, fig. (Cochin China ; HAM-BURG).

Distribution : Thailand, Laos, Vietnam.

Material examined. THAILAND : Trang Prov., Kaochong, 2 exs., 1-18. iv. 1960 (BANGKHEN). LAOS : Sedone Prov., Paksong, 1 ex., 17. v. 1965, P. D. Aslock ; Wapikhamthong Prov., Khong Sedone, 1 ex., 30. v. 1965, Native collr (BISHOP).

***Paleosepharia unicolor* n. sp.** Fig. 47b

Entirely yellowish to reddish brown.

Head with vertex finely granulate, sparsely impressed by fine punctures, interocular space distinctly wider than transverse diameter of single oculus, and interocular transverse impression feeble, frontal tubercle subtriangular, contiguous, distinctly raised, surface finely granulate. Antenna slender, nearly as long as length of body ; first segment long, second shortest, nearly $2/5$ as long as first, third twice as long as second, fourth twice as long as third, fifth slightly longer than fourth, fifth to seventh subequal to each other in length and shape, eighth slightly shorter than seventh, ninth subequal to eighth in length and shape, eleventh subequal to tenth in length but its apex pointed. Pronotum transverse, $2\frac{1}{2}$ times as broad as long, anterior margin distinctly rounded posteriorly, lateral margin slightly rounded, widest almost at middle, slightly narrowed anteriorly and more distinctly so posteriorly, basal margin distinctly rounded posteriorly, almost straight at middle, dorsal surface convex, with a pair of distinct transverse depressions which are united at middle, sparsely impressed by distinct punctures, and interstices of punctures finely granulate. Scutellum subtriangular, finely granulate, impunctate. Elytron gradually widened posteriorly and truncate at apex, surface distinctly and rather closely punctate, and interstices of punctures granulate.

Male : Fifth abdominal segment trilobed, median lobe longitudinally sulcate. **Female** : Fifth abdominal segment entire.

Length : 4.5-6.6 mm.

Holotype (BISHOP) : VIETNAM : Fyan, 900-1,000 m, 11. vii.-9. viii. 1961, N. R. Spencer. Para-

topotypes: 4 *em.*, same data as the holotype (BISHOP, KIMOTO). Paratypes : LAOS : Vientiane Prov., Ban Van Eue, 1 ex., 30. xi. 1965, 1 ex., 15. xii. 1966, Native collr (BISHOP). VIETNAM: 18 km NW of Dalat, 1,300 m, 1 ex., 4-5. v. 1960, L. W. Quate (BISHOP).

This new *specks* resembles *Paleosepharia fulva* Kimoto, but differs in having pronotum much wider, and with a pair of transverse furrows which are united at middle.

Genus **Aplosonyx** Chevrolat

Aplosonyx Chevr., 1837, in Dejean, Cat. Col., ed. 3 : 399 (type : *Galeruca albicornis* Wiedemann ; Java).-Maulik, 1936, Fauna India, Galeruc.: 612.—Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B : 653.

Haplosonyx Gistel, 1848, Nat. Thierr. : 14 (emendation for *Aplosonyx* Chevrolat).

Caritheca Baly, 1977, Ent. Monthly Mag., 123 : 226 (type : *Caritheca quadripustulata* Baly ; Sumatra ; monobasic). New synonym.

KEY TO SPECIES OF *Aplosonyx*

- 1 Elytron with punctures arranged in longitudinal rows 2
- Elytron with punctures confusedly impressed 3
- 2(1) Elytron reddish brown ; head and pronotum black ; ventral surfaces black with abdomen and middle of metasternum brown ; elytron with punctures partly disappearing and postbasal transverse furrow distinct ; length 10.5 mm *rufipennis*
- Entirely yellowish brown, in some specimen metathorax and part of abdomen infusate ; elytron with punctures distinctly impressed on entire surface and without any transverse furrow ; length 8.3-8.6 mm *inornatus*
- 3(1) Elytral punctures stronger, interstices of punctures narrower than diameter of single puncture in lateral portion 4
- Elytral punctures finer, interstices of punctures wider than diameter of single puncture in lateral portion 5
- 4(3) Pronotum pale with basal black area or a pair of black spots ; elytron pale with a broad purplish band anterior to middle, which extends forward along suture and expands again on base ; in some specimens dorsal surface entirely reddish brown ; reddish brown with lateral part of meso- and metathorax infusate ; length 10.0-13.0 mm *ancora*
- Elytron violaceous blue with basal and postmedian markings yellowish brown ; yellowish brown with a longitudinal stripe on pronotum, vertex, meso- and metathorax pitchy black ; antenna pitchy black with most of first and eleventh segments brownish, and legs pitchy black with femora mostly brownish ; length 8.3-9.1 mm *quadripustulatus*
- 5(3) Dorsal surfaces entirely brownish 6
- Dorsal surfaces partly or largely bluish, violaceous or blackish * 8
- 6(5) Legs with tibiae and tarsi blackish 7
- Legs entirely ochraceous ; generally ochraceous ; length X2.0-14.0 mm *spenceri*
- 7(6) Leg with tibiae and tarsi black ; yellowish brown with meso- and metathorax largely pitchy black, in pale colored specimen ventral surfaces entirely yellowish brown ; antenna pitchy black with first segment brownish ; length 11.0-12.0 mm *orientalis*

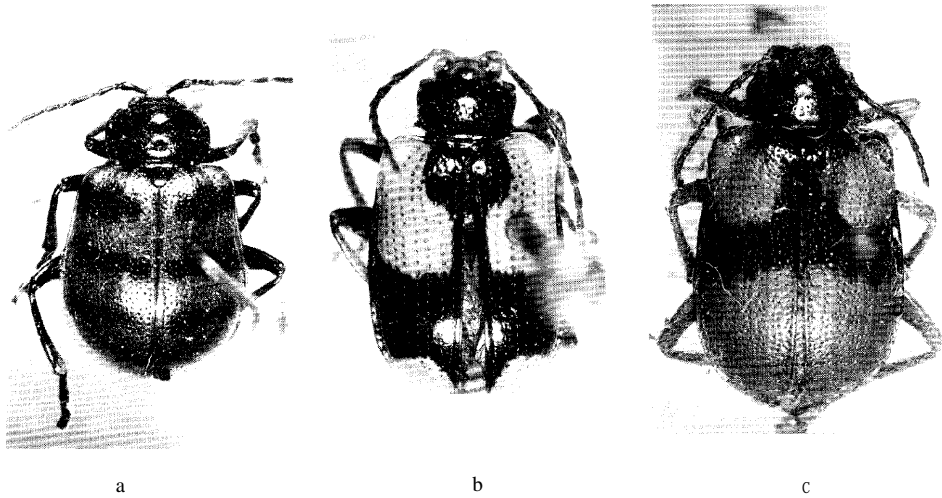


Fig. 50. a, *Leptarthra pici* Laboissière; b, *Aplosonyx ornatus* (Jacoby); c, *A. ancora* Laboissière.

- Legs entirely blackish; yellowish brown with ventral surfaces of meso- and meta-
thorax and abdomen pitchy black; antenna yellowish brown with apical two seg-
ments blackish; length **15.0** mm *robinsoni*
- 8(5) Pronotum mostly or entirely black 9
 Pronotum not entirely black 10
- 9(8) Elytron yellowish brown with a broad blackish band at middle, which extends along
 suture and expands again on base; pronotum mostly black; ochraceous with ver-
 tex, ventral surfaces of thorax pitchy black; antenna pitchy black with two or three
 basal segments brownish; legs pitchy black with most parts of femora brownish;
 length 5.8-6.3 mm *ornatus*
 Elytron entirely yellowish brown; pronotum entirely black; generally black,
 labrum, antenna and tibiae and tarsi generally yellowish brown; length 8.5-10.0
 mm *nigricollis*
- 10(8) Elytron entirely bluish or violaceous 11
 Elytron yellowish brown with basal half violaceous blue; ochraceous, antenna
 pitchy black with two or three basal and two or three apical segments brownish;
 length 9.6 mm *mouhoti*
- 11(10) Pronotum with four raised areas in front of transverse furrow; elytron blue or
 purplish blue; reddish brown, antenna with fifth to eighth segments pitchy black,
 and legs with tibiae and tarsi largely blackish; length 13.0-15.0 mm *chalybaeus*
 Pronotum without any distinctly raised areas in front of transverse furrow; elytron
 violaceous; reddish brown, legs with tibiae and tarsi pitchy black; length 10.0
 mm *sublaevicollis*

Aplosonyx ancora Laboissière Fig. 50c

Aplosonyx ancora Lab., 1935, Ann. Ass. Nat. Levallois-Perret, '21 : 110 (Tonkin; HAMBURG).
 -Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B: 653 (China, Vietnam).

Distribution : Vietnam, China.

Material examined. "Indo-China", 2 exs. (BASEL).

Aplosonyx chalybaeus (Hope)

Galleruca chalybaeus Hope, 1831, in Gray, 2001. Misc., 28 (Nepal ; BM).

Aplosonyx elongata Baly, 1863, Trans. Ent. Soc. London, ser. 3, 1 : 642 (N. India ; BM) ; 1879, Cist. Ent., 2 : 452 (= chalybaeus).

Haplosonyx chalybaeus : Baly, 1879, Cist. Ent., 2 : 452 (Assam) ; Duvivier, 1892, Ann. Soc. Ent. Belg., 36 : 440 (India).

Aplosonyx chalybaeus var. *jeanvoinei* Laboissike, 1935, Ann. Ass. Nat. Levallois-Perret, 21 : 109 (Tonkin).

Aplosonyx chalybaeus : Maulik, 1936, Fauna India, Galeruc.: 614 (Himalaya from Nepal to Burma).-Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B : 653 (Tibet, Vietnam).

Distribution: Nepal, Sikkim, N. India, Burma, Vietnam, China (Tibet).

No additional material was examined.

Aplosonyx inornatus (Jacoby)

Haplosonyx inornatus Jac., 1892, Ann. Mus. Civ. Genova, 32 : 964 (Burma ; GENOVA).

Aplosonyx inornatus : Maulik, 1936, Fauna India, Galeruc. : 617 (Burma).

Distribution : Burma, Thailand, Laos.

Material examined. THAILAND : Chiang Mai Prov., Doi Suthep, 1,000 m, 1 ex., 12. vi. 1965, Y. Miyatake (KU). LAOS : Vientiane Prov., Gi Sion Vill., de Tha Ngone, 1 ex., 10-24. x. 1965, Native collr (BISHOP).

Aplosonyx mouhoti (Baly) Fig. 51c

Haplosonyx mouhoti Baly, 1879, Ann. Mag. Nat. Hist., ser. 5, 4 : 114 (Siam, Cambodja ; BM).

Distribution : Thailand, Cambodia.

Material examined. THAILAND : Chiang Mai Prov., Doi Suthep, 1,000 m, 1 ex., 8. vi. 1965, S. Asahina (KU).

Aplosonyx nigricollis (Duvivier) Fig. 52c

Haplosonyx nigricollis Duviv., 1885, Stett. Ent. Z., 46 : 244 (Nias, Malacca).—Jacoby, 1889, Ann. Mus. Civ. Genova, 27 : 284, fig. (Nias) ; 1897, *ibid.*, **38** : **410** (Batu Is.).

Aplosonyx nigricollis : Laboissière, 1940, Bull. Mus. Hist. Nat. Belg., 16(3) : 22 (Nias).

Distribution : Thailand, Malaya, Nias, Mentawai, Batu.

I could not examined the type of this species. My identification is based on Laboissière's material.

Material examined. THAILAND : Musa, nr. Fang, 1 ex., 22. xi. 1968, Hatta (EHIME).

Aplosonyx orientalis (Jacoby)

Haplosonyx orientalis Jac., 1892, Ann. Mus. Civ. Genova, 32 : 962 (Burma ; GENOVA).

Haplosonyx varipes Jac., 1892, Ann. Mus. Civ. Genova, 32 : 964 (Burma ; GENOVA). New **synonym**.

Galerucida indica : Allard, 1889, Ann. Soc. Ent. France, ser. 6, 9 : 310 (Saigon, Pnomh-Penh).

—Laboissière, 1922, Bull. Soc. Ent. France, 1922 : 102 (= *tonkinensis*).

Sphenoraia tonkinensis Laboissière, 1922, Bull. Soc. Ent. France, 1922 : 102 (Saigon, Pnomh-Penh, Lao-Lay, Ha Lang; HAMBURG). New **synonym**.

Aplosonyx varipes : Laboissière, 1934, Ann. Ass. Nat. Levallois-Perret, 21 : 109 (Tonkin).
—Maulik, 1936, Fauna India, Galeruc. : 619 (India, Burma, Tonkin).—Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B : 654 (India, Burma, Tonkin).—Chûjô, 1964, Nature and Life in SE Asia, Kyoto, 3 : 284 (Thailand).

Aplosonyx orientalis : Maulik, 1936, Fauna India, Galeruc. : 619 (Burma).—Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B : 654 (Vietnam).

Distribution : India, Burma, Thailand, Laos, Vietnam.

Material examined. THAILAND : Trang Prov., Khaophapha, Khaochang, 200-400 m, 1 ex., 1. i. 1964, 4 exs., 4. i. 1964, 1 ex., 10. i. 1964, 1 ex., 11. i. 1964, 2 exs., 13. i. 1964, G. A. Samuelson ; Chiang Mai Prov., Maesa, 2 exs., 16. vi. 1965, P. D. Ashlock ; Doi Suthep, 1,278 m, 1 ex., 29. iii.-4. v. 1958, T. C. Maa ; Loey Prov., 17 km NW of City, 1 ex., 18. v. 1967, J. S. Burton ; Khao Yai, 1 ex., 7. ix. 1963, Pakchong, 1 ex., 7. iii. 1963 Native collr (BISHOP) ; Fang, 1 ex., 14. vi. 1965, K. Morimoto ; Khao Yai Nat. Park, 1 ex., 6. vi. 1965, S. Asahina ; Khao Chong, nr. Trung, 1 ex., 27. vi. 1965, K. Morimoto ; Chiangmai, 3 exs., 20. vii. 1970, K. Yano (KU) ; Trang, 8 exs., 1-18. iv. 1960, 1 ex., 4. iv. 1960, 1 ex., 9. iv. 1960, Phrae, 1 ex., 7. viii. 1938 ; Chiangmai, 2,800 ft., 1 ex., 24-27. iv. 1953 ; Chiangmai, 3,300 ft., 2 exs., 21. vi. 1936, Nakhon Ratchasima, 1 ex., 19. v. 1961 (BANGKHEN). LAOS : Vientiane Prov., Ban Van Eue, 1 ex., 12. iv. 1965, J. L. Gressitt, 17 exs., 15-31. v. 1965, 13 exs., 31. vii. 1965, 2 exs., 30. xi. 1965, 2 exs., 15. iv. 1966, 1 ex., 15. vi. 1966, Native collr ; Vientiane Prov., Phou Kou Khouei, 1 ex., 31. v. 1966, Native collr ; Tha Ngone, 1 ex., 10-24. x. 1965, Native collr ; Sedone Prov., Pakse, 3 exs., 31. v. 1967, 3 exs., 15. vi. 1967, 1 ex., 30. vi. 1967, Native collr ; Wapikhamthong Prov., Khong Sedone, Wapi, 1 ex., 30. v. 1965, 1 ex., 17. vii. 1965, 2 exs., 17. ix. 1965, 1 ex., 31. v. 1967, 1 ex., 31. viii. 1967, 1 ex., 15. x. 1967, Native collr ; Sayaboury Prov., Sayaboury, 1 ex., 21. ix. 1965, 1 ex., 29. iii. 1966, 1 ex., 25. viii. 1966, Native collr ; Muong Sing, NW of Luang Prabang, 650 m, 6 exs., 6-10. vi. 1960, S. Quate & L. Quate ; Tonpheng, 1 ex., 30. vi. 1966, Native collr ; Ile de Khong, 1 ex., 6. ii. 1965, 1 ex., 20. vii. 1965, 1 ex., 24.

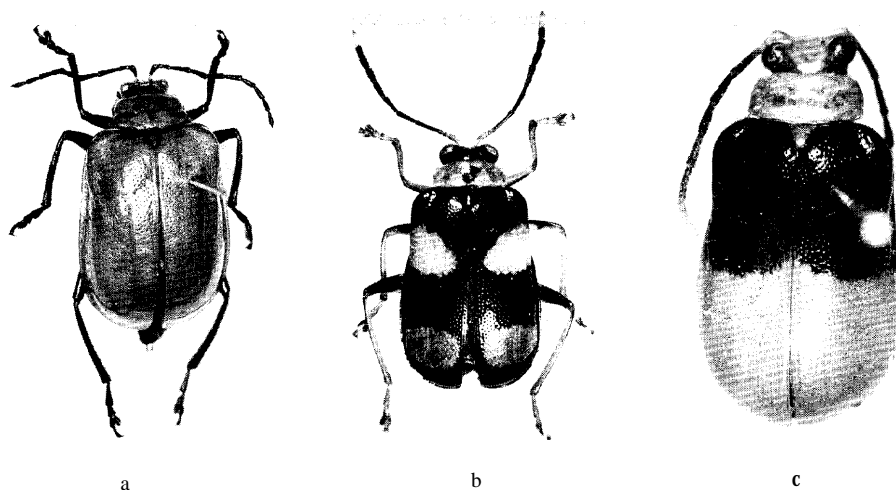


Fig. 51. a, *Aplosonyx robinsoni* (Jacoby) ; b, *A. quadripustulatus* (Baly) ; c, *A. mouhoti* (Baly).

viii. 1965, 1 ex., 7. ix. 1965, Native collr (BISHOP) ; Umgeb. Vientiane, 5 exs., iii-vi. 1963 ; Umgeb. Paklay, 1 ex., 1963 ; Umgeb. Vanky, 1 ex., 1963 (MUNCHEN). VIETNAM : Kontum, N. of Pleiku, 500 m, 1 ex., 13. v. 1960, S. Quate (BISHOP).

Aplosonyx ornatus (Jacoby) Fig. 50b

Haplosonyx ornata Jac., 1892, Ann. Mus. Civ. Genova, 32 : 963 (Burma ; GENOVA).

Aplosonp ornata : Laboissière, 1940, Bull. Mus. Hist. Nat. Belg., 16(3) : 21 (Burma).

Distribution : Burma, Laos.

Material examined. LAOS : Vientiane Prov., Ban Van Hue, 1 ex., 31. vii. 1965, Native collr (BISHOP).

Aplosonyx quadripus tula tus (Baly), **new combination** Fig. 51b

Caritheca quadripustulata Baly, 1877, Ent. Monthly Mag., 13 : 226 (Sumatra ; BM).—Laboissière, 1932, M&M. Mus. Hist. Nat. Belg., hors ser., 4(4) : 172 (Sumatra) (as *Caritheca*).

Distribution : Thailand, Sumatra.

Material examined. THAILAND : Narathiwat Prov., 15 km W. of Waeng, 100 m, 3 exs., 7-11. ix. 1965, L. W. Quate (BISHOP) ; Khao Chong, nr. Trung, 3 exs., 26-27. vi. 1965, K. Morimoto & Y. Miyatake (KU).

Aplosonyx robinsoni (Jacoby) Fig. 51a

Haplosonyx robinsoni Jac., 1905, Fasciculi Malayenses, 2 (Appl.) : 6 (Siamese Malay : Bukit Besar, Nawangchik and Tor ; BM).

Aplosonp robinsoni : Maulik, 1936, Fauna India, Galeruc. : 618 (Burma, Thailand, Perak, Sumatra).

Distribution : Burma, Thailand, Malaya, Sumatra.

Material examined. THAILAND : Chiang Mai Prov., Doi Suthep, 1,000 m, 1 ex., 12. vi. 1965, P. D. Ashlock (BISHOP).

Aplosonyx rufipennis (Duvivier) Fig. 52a

Haplosonyx rufipennis Duviv., 1892, Ann. Soc. Ent. Belg., 36 : 439 (Pedong).

Aplosonyx rufipennis : Laboissière, 1934, Ann. Ass. Nat. Levallois-Perret, 21 : 110 (Tonkin, Yunnan) ; 1940, Bull. Mus. Hist. Nat. Belg., 16(3) : 21 (Tonkin).—Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B : 654 (China).

Aplosonyx rubra Maulik, 1936, Fauna India, Galeruc. : 620 (Burma ; BM).—Laboissière, 1940, Bull. Mus. Hist. Nat. Belg., 16(3) : 21 (= *rufipennis*).

Distribution : India, Vietnam, W. China.

No additional material was examined.

Aplosonyx spenceri n. sp. Fig. 52b

Entirely ochraceous.

Head with vertex smooth, shining, nearly impunctate, and with a short longitudinal furrow in front, interocular space distinctly wider than transverse diameter of single oculus, and interocular

transverse impression distinct, frontal tubercle transverse, subquadrate, distinctly raised, surface smooth, shining. Antenna slender, nearly $2/3$ as long as body length; first segment robust, club-shaped, second shortest, nearly $1/4$ as long as first, third nearly half as long as second, fourth nearly three times as long as third, fifth slightly shorter than fourth, sixth slightly shorter than fifth, seventh subequal to seventh in length and shape, eighth slightly shorter than seventh, and eighth to tenth subequal to each other in length and shape, eleventh subequal to seventh in length but its apex pointed. Pronotum transverse, twice as broad as long, anterior margin distinctly rounded posteriorly, lateral margin distinctly constricted at middle, basal margin distinctly rounded posteriorly and concaved before scutellum, dorsal surface convex, smooth, shining, sparsely impressed by distinct punctures, and with a pair of oblique lateral furrows very deep. Scutellum subtriangular, smooth, shining, impunctate. Elytron with lateral margin slightly rounded, surface sparsely and confusedly impressed by distinct punctures and interstices of punctures smooth, shining, and with a shallow postbasal transverse furrow.

Length : 12.0-14.0 mm.

Holotype (BISHOP) : CAMBODIA : Kiri Room, 700 m, 31. iii.-7. iv. 1961, N. R. Spencer. Paratopotype : 1 ex., same data as the holotype (KIMOTO).

This new species somewhat resembles *Aplosonyx orientalis* (Jacoby), but differs in being the body length longer and having the legs and the ventral surfaces entirely ochraceous.

***Aplosonyx sublaevicollis* (Jacoby)**

Haplosonyx sublaevicollis Jac., 1889, Ann. Mus. Civ. Genova, 27 : 218 (Tenasserim ; GENOVA).

Aplosonyx sublaevicollis : Maulik, 1936, Fauna India, Galeruc.: 615 (Burma).—Laboissière, 1940, Bull. Mus. Hist. Nat. Belg., 16 (3) : 21 (Tenasserim).—Chûjô, 1961, Nature and Life in SE Asia, Kyoto, 1 : 349, fig. (Thailand).

Distribution : Burma, Thailand, Laos.

Material examined. THAILAND : Chiangmai, 3,200 ft, 4 exs., 25. iv. 1939, Chiangmai, 5,500 ft, 1 ex., 7. iv. 1939 (BANGKHEN). LAOS : Muong Sing, NW of Luang Prabang, 650 m, 1 ex., 6-10. vi. 1960, S. Quate (BISHOP).

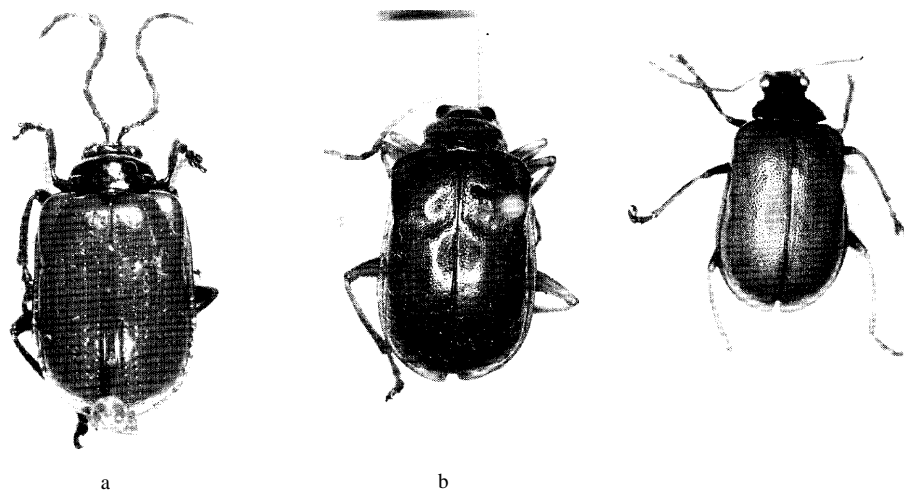


Fig. 52. a, *Aplosonyx rufipennis* (Duvivier) ; b, *A. spenceri* n. sp. ; c, *A. nigricollis* (Duvivier).

Genus **Leptarthra** Baly

Leptarthra Baly, 1861, J. Ent., 1 : 202 (type : ***Leptarthra abdominalis*** Baly ; E. Himalayas).
—Chapuis, 1875, Gen. Col., 11 : 224, 227-Maulik, 1936, Fauna India, Galeruc. : 609.—Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B : 654.

Leptarthra pici Laboissière Fig. 50a

Leptarthra pici Lab., 1934, Ann. Ass. Nat. Levallois-Perret, 21 : 112, fig. (Tonkin ; HAMBURG).
Distribution : Vietnam.

Subovate ; head, pronotum, scutellum, ventral surfaces of thorax, antenna and legs largely violaceous blue ; elytron ochraceous with three transverse bands violaceous blue ; abdomen reddish brown with basal segments in part bluish. Length 10.2 mm.

No additional material was examined.

Genus **Sphenoraia** Clark

Sphenoraia Clark, 1865, Ann. Mag. Nat. Hist., ser. 3, 16 : 262.—Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B : 655 (type : *Galleruca bicolor* Hope ; Nepal).

KEY TO SPECIES OF *Sphenoraia*

- 1 Short oval, antenna robust, strongly compressed (***Sphenoraiaoides***)2
Elongate, subparallel-sided ; antenna filiform (*Sphenoraia*) ; reddish brown, pronotum with a pair of and elytron with seven pairs of blackish markings, ventral surfaces and legs in part blackish ; length 8.3 mm (Hope, 1831 ; type of subgenus ; India, Burma, Nepal ; Fig. 53a) **bicolor**
- 2(1) Elytron pale or pale spotted with black 3
Elytron blue to coppery 5
- 3(2) Punctures of elytron not arranged in a pair of rows or semiregularly arranged4
Punctures of elytron regularly arranged in a pair of rows ; yellowish brown, tibiae and tarsi black, antenna black with basal two or three segments brownish ; length 9.3 mm *tibialis*
- 4(3) Elytron impressed by regular fairly strong punctures alternating with impunctate stripes ; elytron and abdomen reddish brown, head, thorax, antenna and legs entirely violaceous blue ; antenna slenderer ; length 7.5-8.0 mm *duvivieri*
Elytron entirely irregularly punctured ; elytron reddish to yellowish brown with seven black spots, and pronotum pale with two black spots ; in most pale colored specimen dorsal surfaces entirely reddish brown, and in most dark colored specimen elytron almost entirely blackish ; antenna robust ; length 5.5-7.0 mm **nebulosa**
- 5(2) Interstices of elytral punctures wider than diameter of single puncture, sometimes punctures semiregularly arranged in rows ; dorsal surfaces varying color, purplish blue, golden green, bronzy 6
Interstices of elytral punctures narrower than diameter of single puncture and confusedly punctate throughout ; entirely bluish black ; pronotum with a pair of deep transverse furrows ; length 7.2-8.2 mm *paviei*

- 6(5) Pronotum with a pair of deep furrows laterally, sides strongly rounded and widest almost at middle ; length 8.5-9.0 mm (Hope, 1831; Kashmir, N. India, Nepal, Bhutan ; W. China ?)*rutilans*
 Pronotum without any distinct furrow laterally, sides slightly rounded and widest at 1/3 from anterior corner ; length 7.5-8.5 mm*micans*

Subgenus **Sphenoraioides** Laboissière

Sphenoraioides Laboissiere, 1934, Ann. Ass. Nat. Levallois-Perret, 21 : 131 (type : *Galleruca fulgida* Redtenbacher ; Himalaya : Maussuri).

Sphenoraia (Sphenoraioides) duvivieri (Laboissière)

Sphenoraia indica Duvivier, 1887, C. R. Soc. Ent. Belg., 1887 : 48 (nec Harold, 1880) (Inde borealae ; BRUXELLES).

Galerucida duvivieri Lab., 1929, Encycl. Ent., Col., 1 (2) : 53 (new name for **Sphenoraia indica** Duvivier).

Sphenoraia (Sphenoraioides) duvivieri : Laboissiere, 1934, Ann. Ass. Nat. Levallois-Perret, 21 : 134 (Tonkin, Yunnan).-Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B : 656 (China).

Gallerucida amala Maulik, 1936, Fauna India, Galeruc. : 549 (Burma).-Laboissike, 1940, Bull. Mus. Hist. Nat. Belg., 16 (3) : 30 (= *duvivieri*).

Distribution : India, Burma, Thailand, Laos, Vietnam, China.

Material examined. THAILAND : Khon Kaen, 1 ex., 24. vii. 1980, S. Azuma (RU). LAOS : Vientiane Prov., Vientiane, 1 ex., iv. 1967, Native collr ; Vientiane Prov., Ban Van Eue, 1 ex., 29. iv. 1966, 1 ex., 31. v. 1966, 1 ex., 15. vi. 1966, Native collr ; Vientiane Prov., Gi Sion Vill., de Tha Ngone, 1 ex., 24-31. x. 1966, Native collr ; Xing Kyouong Phov., Ban Sam Thung, 2 exs., 5. vi. 1965, Native

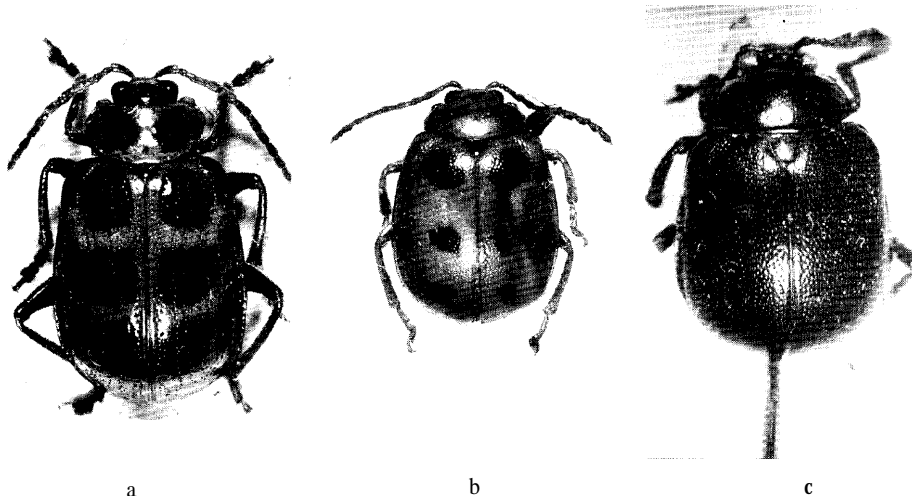


Fig. 53. a, **Sphenoraia** (*Sphenoraioides*) *bicolor* (Hope) ; b, *S. (Sphenoraioides) nebulosa* (Gyllenhal) ; c, *S. (Sphenoraioides) paviei* Laboissiere.

collr ; Sayaboury Prov., Sayaboury, 1 ex., 16. iv. 1965, J. L. Gressitt, 1 ex., 21. iv. 1966, Native collr (BISHOP). VIETNAM : Tonkin, 1 ex., 10. viii. 1942, T. Esaki (KU).

Sphenoraia (Sphenoraioides) micans (Fairmaire) Fig. 4a

Eustetha micans Fairmaire, 1888, Ann. Soc. Ent. Belg., 32 : 42 (Moupin).

Galemcida fulgida : Weise, 1922, Tijdschr. Ent., 65 : 90 (Fukien).

Galerucida fulgida var. *coerulescens* Weise, 1922, **ibid.** : 91 (Fukien).

Sphenoraia (Sphenoraioides) micans : Laboissière, 1934, Ann. Ass. Nat. Levallois-Perret, 21 : 31 (China).-Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B : 657, fig. (China).

Sphenoraia (Sphenoraioides) micans var. *cyanella* Laboissière, 1934, **ibid.** : 132 (Tibet).

Galemcida fulgida : Ogloblin, 1936, Fauna USSR, 26, 1 : 363 (China).

Distribution : China, Indo-China.

Material examined. "Indo-China" : Pa Kha, 1 ex., 1944 (BASEL).

Sphenoraia (Sphenoraioides) nebulosa (Gyllenhal) Fig. 53b

Galleruca nebulosa Gyll., 1808, in Schönherr, Syn. Ind., 1 (2) : 292, pl. 4, fig. 10 (E. India).

Galemcida nebulosa : Maulik, 1936, Fauna India, Galeruc. : 552, fig. 135 (East Indies).

Sphenoraia (Sphenoraioides) nebulosa : Laboissière, 1934, Ann. Ass. Nat. Levallois-Perret, 21 : 132, fig. 7 (Tonkin, India, Burma, Siam).-Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B : 256 (China, Vietnam).

Doryda balyi : Allard, 1889, Ann. Soc. Ent. France, ser. 6, 9 : 310 (Hue, Pnomh-Penh) ; 1891, Nouv. Arch. Mus. Paris, ser. 3, 3 : 231 ; 1904, Miss. Pavie Indo-Chine, 3 : 160 (Cambodge).—Laboissière, 1934, Ann. Ass. Nat. Levallois-Perret, 21 : 132, fig. 7 (corrected as **nebulosa** ; Tonkin, India, Burma, Siam).

Distribution : India, Burma, Thailand, Cambodia, Laos, Vietnam, S. China, Hainan.

Material examined. THAILAND : Chiang Mai Prov., Fang, 500 m, 2 exs., 12-19. iv. 1958, T. C. Maa, 1 ex., 13. vi. 1965, P. D. Ashlock ; Chiang Mai Prov., Mae Klang, 340 m, 1 ex., 11. vi. 1965, P. D. Ashlock ; Saraburi Prov., Ban Muak Lek Nat. Park, 1 ex., 6. vi. 1965, P. D. Ashlock ; Pangmakampon (Pankmpawng), nr. Fang, 450 m, 2 exs., 16. xi. 1957, J. L. Gressitt ; Nakorn-nayok, 1 ex., 6. ix. 1963, Native collr (BISHOP) ; Saraburi, 1 ex., 21. vii. 1956, 1 ex., 23. v. 1958 ; Choburi, 1 ex., 1. ix. 1956 ; Chiangmai, 1,000 ft., 1 ex., 16-21. iv. 1953 (BANGKHEN). LAOS : Khammouane Prov., Phon Tiou, 2 exs., 18. viii. 1965, J. A. Rondon, 1 ex., 28. iv. 1965, 3 exs., 30. iv. 1965, 2 exs., 17. v. 1965, 1 ex., 28. v. 1965, 1 ex., 14. vii. 1965, 1 ex., 11. ix. 1965, 3 exs., 28. ix. 1965, 1 ex., 8. iii. 1966, Native collr ; Vientiane Prov., Vientiane, 1 ex., 21. iv. 1965, J. A. Rondon, 1 ex., 21. ii. 1966, 1 ex., 22. vii. 1966, Native collr ; Vientiane Prov., Gi Sion Vill., de Tha Ngone, 1 ex., 24-31. x. 1966, Native collr ; Sayaboury Prov., Sayaboury, 1 ex., 14. vii. 1965, Native collr ; Borikhane Prov., Paksane, 1 ex., 7. viii. 1965, Native collr ; Borikhane Prov., Pakkading, 1 ex., 5. iv. 1966, Native collr ; Sedone Prov., Pakse, 1 ex., 15. vii. 1967, Native collr ; Savanakheth, 1 ex., 18. iv. 1965, J. A. Rondon ; Dong Dok, 1 ex., 23. vii. 1965, 1 ex., 11. ix. 1965, 1 ex., 26. ii. 1966, Native collr ; Nongteva, 1 ex., 27. vii. 1965, Native collr (BISHOP) ; Umgeb. Vientiane, 10 exs., iii-vi. 1963 ; Umgeb. Vankay, 2 exs., 1963 ; Umgeb. Paklay, 2 exs., 1963 (MUNCHEN).

Sphenoraia (Sphenoraioides) paviei Laboissière Fig. 53c

Sphenoraia paviei Lab., 1934, Ann. Ass. Nat. Levallois-Perret, 21 : 134 (Tonkin ; PARIS).—Gres-

sitt & Kimoto, 1963, Pac. Ins. Mon., 1B: 657 (Laos).

Galerucida magica: Allard, 1891, Nouv. Arch. Mus. Paris, ser. 3, 3: 231; 1904, Miss. Pavie Indo-Chine, 3: 160 (Laos: Luang-Prabang à Theng).

Distribution: Thailand, Laos, Vietnam.

Material examined. "Thailand", 2 exs. (BANGKHEN). LAOS: Sayaboury Prov., Sayaboury, 1 ex., 21. iv. 1965, J. A. Rondon, 1 ex., 21. iv. 1966, Native collr (BISHOP); Umgeb. Vientiane, 1 ex., iii-vi. 1963 (MUNCHEN).

Sphenoraia (Sphenoraioides) tibialis (Baly), new combination

Berecyntha tibialis Baly, 1865, Ent. Monthly Mag., 2: 98 (Cambodia; BM).

Sphenoraia convexa Laboissière, 1940, Bull. Mus. His. Nat. Belg., 16: 29 (Siam; BRUXELLES).

New synonym.

Distribution: Thailand, Cambodia, Laos.

Material examined. THAILAND: Pak Chong, 1 ex., 16. v. 1963, Native collr (BISHOP). LAOS: Tonphen, 29, v. 1966, Native collr (BISHOP).

Genus *Cassena* Weise

Cassena Weise, 1892, Dtsche Ent. Z., 1892: 388.—Bryant, 1962, Ann. Mag. Nat. Hist., ser. 13, 5: 369 (type: *Cassena vorax* Weise = *Cassena celebensis* Weise, nec Jacoby, 1886; Celebes).—Gressitt & Kimoto, 1963, Pac. Ins., 5(4): 925.

Euphyma Baly, 1879, Cist. Ent., 2: 457 (nec Mulsant, 1875, Baly, 1877) (type: *Euphyma collaris* Baly; Assam; monobasic).

Solenia Jacoby, 1886, Ann. Mus. Civ. Genova, 34: 87 (new name for *Euphyma* Baly, 1879).

Solephyma Maulik, 1936, Fauna India, Galeruc., 329 (new name for *Euphyma* Baly, 1879, nec Baly, 1877, Cryptocephalinae and *Solenia* Jacoby, 1886, nec Mulsant, 1875, Staphylinidae).—Bryant, 1962, Ann. Mag. Nat. Hist., ser. 13, 5: 369.—Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B: 657.

KEY TO SPECIES OF *Cassena*

- | | | |
|------|--|-------------------|
| 1 | Elytron largely yellowish to reddish with or without marking | 2 |
| | Elytron largely bluish without marking | 4 |
| 2(1) | Ventral surfaces entirely reddish brown | 3 |
| | Ventral surfaces reddish brown with abdomen pitchy brown; elytron yellowish brown, sutural margin widely blackish; head and pronotum reddish brown, scutellum pitchy black; length 3.8 mm | <i>suturalis</i> |
| 3(2) | Elytron reddish brown with yellowish apical marking, which is margined by black in most specimens; general color reddish brown, legs reddish brown with tibiae and tarsi blackish; length 4.5–5.7 mm | <i>oculata</i> |
| | Elytron yellowish brown with margins narrowly infusate, and in some specimen dark brown with a large discal marking yellowish; generally reddish brown, legs almost entirely dark brown; length 3.6–4.4 mm | <i>vietnamica</i> |
| 4(1) | Elytron entirely bluish to blackish | 5 |
| | Elytron bluish black with apex yellowish brown; generally bluish black with abdomen yellowish brown; length 3.1–4.7 mm | <i>terminalis</i> |
| 5(4) | Ventral surfaces not entirely brownish | 6 |

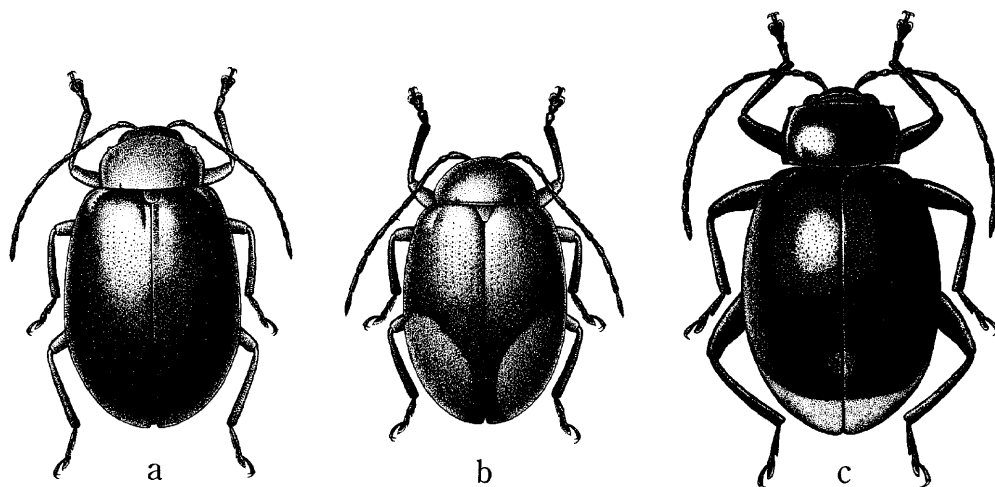


Fig 54. a, *Cassena collaris* (Baly) ; b, *C. oculata* Laboissière ; c, *C. terminalis* (Gressitt & Kimoto).

- Ventral surfaces, head, pronotum, scutellum and legs entirely brownish ; elytron bluish black, antenna pitchy black with basal segments brownish ; length 4.8-5.6 mm *indica*
- 6(5) Legs at least partly brownish 1
- Legs almost entirely pitchy black to bluish black ; generally pitchy black, elytron bluish black, head and prothorax reddish brown, antenna largely pitchy black ; length 7.1-7.8 mm *rubyana*
- 7(6) Body length longer; legs pitchy black with anterior and middle legs brownish; generally reddish brown with most of metathorax and abdomen pitchy brown ; elytron bluish black ; length 4.8—5.7 mm *collaris*
- Body length shorter ; legs entirely brownish ; generally reddish to yellowish brown with metathorax pitchy brown, elytron pitchy black ; length 3.3-4.2 mm *integrifrons*

Cassena collaris (Baly) Fig. 54a

Euphyma collaris Baly, 1879, Cist. Ent., 2 : 457 (Assam ; BM).

Solenia collaris : Jacoby, 1889, Ann. Mus. Civ. Genova, ser. 2, 7 : 236 (Burma).

Solenia robusta Jacoby, 1896, Ann. Mus. Civ. Genova, 36: 500 (Padang, Perak ; BM).-Maulik, 1936, Fauna India, Galeruc. : 331 (= *collaris*).

Cassena tonkinensis Weise, 1922, Tijdschr. Ent., 65 : 128 (Tonkin ; STOCKHOLM). New **synonym**.

Cassena collaris : Laboissière, 1932, Mém. Mus. Hist. Nat. Belg., hors ser., 4(4) : 182 (Indes, Tonkin).

Cassena robusta : Laboissière, 1932, Mém. Mus. Hist. Nat. Belg., hors ser., 4(4) : 182 (Java, Perak).

Solephyma collaris : Maulik, 1936, Fauna India, Galeruc. : 331 (India, Burma, Siam, Perak, Sumatra).

Solephyma tinkhami Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B: 663, fig. (Tonkin : Lao-kay, Sino-Vietnam border; China ; BISHOP). New **synonym**.

Cassena tinkhami : Gressitt & Kimoto, 1963, Pac. Ins., 5(4) : 925 (N. Vietnam, China).

Distribution : India, Burma, Thailand, Vietnam, China, Malaya, Sumatra, Java.

Material examined. THAILAND : Chiang Mai Prov., Fang, 1 ex., 12-19. iv. 1958, T. C. Maa ; Chiang Mai Prov., Fang (Agr. Exp. Station), 600 m, 1 ex., 14. vi. 1965, P. D. Ashlock ; Pakchong, NE of Bangkok (light trap), 1 ex., 1-3. xii. 1957, T. C. Maa ; Banna, 1 ex., 5-10. iv. 1958, T. C. Maa (BISHOP) ; Chiang Mai Prov., Doi Suthep, 5 exs., 10. vi. 1965, K. Morimoto ; Chiang Mai Prov., Tan Keo, Doi Suthep, 800 m, 1 ex., vi. 1965, Y. Miyatake ; Chiang Mai Prov., Mae Sa Water Fall, 1 ex., 16. vi. 1965, K. Morimoto ; Khao Yai Nat. Park, 3 exs., 6. vi. 1965, K. Morimoto ; Pew, Chanta Buri, 2 exs., 29. viii. 1973, S. Nakao ; Fang, 1 ex., 22. viii. 1973, K. Yano (KU) ; Khon Kaen, 1 ex., 20. xii. 1979, S. Azuma (RU) ; Kanchanaburi, 2,500 ft, 2 exs., 31. v. 1962, Chiangmai, 1 ex., 6. vi. 1963 ; Kanchanaburi, 1,300 ft, 1 ex., 21. v. 1962 ; Nakhon Ratchasima, 2 exs., 30. vi. 1962 ; Uthaitani, 4 exs., 13. iv. 1963 (BANGKHEN). LAOS : Vientiane Prov. Vientiane, 2 exs., 22. vii. 1965, Native collr ; Vientiane Prov., Ban Van Eue, 1 ex., 15. v. 1966, Native collr ; Vientiane Prov., Gi Sion Vill., de Tha Ngone, 1 ex, 21-28. ii. 1966, 1 ex, 24-31. x. 1966, Native collr ; Khammouane Prov, Bon Nong Sun, 1 ex., 15. vii. 1965, N. Wilson ; Sayaboury Prov, Sayaboury, 1 ex., 25. viii. 1966, Native collr ; Namkading, 100 m, nr. Pakkading, 1 ex., 15. iv. 1965, J. L. Gressitt, Ile de Khong, 1 ex., 24. viii. 1965, J. A. Rondon (BISHOP) ; Umgeb. Vientiane, 1 ex., iii-vi. 1963 (MUNCHEN). VIETNAM : 24 km S. of Dilingh (Djiring), 1,050 m, 29. iv. 1960, R. E. Leech (BISHOP).

Cassena indica (Jacoby), **new combination**

Solenia (*Euphyma*) ***indica*** Jac., 1889, Ann. Mus. Civ. Genova, 27 : 235 (Burma ; GENOVA).

Solephyma indica : Maulik, 1936, Fauna India, Galeruc. : 332 (Burma).

Distribution : Burma, Thailand.

Material examined. THAILAND : Chiangmai Prov., Doi Pui, 1,360 m, 16 exs., 2. v. 1958, T. C. Maa (BISHOP). LAOS : Vientiane Prov., Ban Van Eue, 2 exs., 15-31. v. 1965, Native collr (BISHOP). VIETNAM : 50 km SW of Pleiku, 250 m, 1 ex., 14. v. 1960, L. W. Quate (BISHOP).

Cassena integricollis (Jacoby) Fig. 56a

Solenia integricollis Jac., 1892, Ann. Mus. Civ. Genova, 32 : 987 (Burma ; GENOVA).

Solephyma integricollis : Maulik, 1936, Fauna India, Galeruc. : 333 (Burma).

Cassena integricollis : Laboissière, 1932, Mém. Mus. Hist. Nat. Belg., hors ser., 4(4) : 182 (Burma).

Distribution : Burma, Thailand, Vietnam.

Material examined. THAILAND : Chiangmai Prov., Fang, 500 m, 2 exs., 13. vi. 1965, P. D. Ashlock (BISHOP) ; Chiang Mai Prov., Fang, 4 exs., 13. vi. 1965, K. Morimoto, 2 exs., 14. vi. 1965, Y. Miyatake (KU). VIETNAM : Fyan, 1,200 m, 1 ex., 11. vii.-9. viii. 1961, N. R. Spencer ; M'Drak, E. of Ban Me Thuot, 4-600 m, 1 ex., 8-19. xii. 1960, C. M. Yoshimoto (BISHOP).

Cassena oculata Laboissière Fig. 54b

Cassena oculata Lab., 1934, Ann. Ass. Nat. Levallois-Perret, 21 : 137 (Tonkin ; HAMBURG).

Solephyma ocellata Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B : 661 (Tonkin : Hoa-bin ; FREY).

New synonym.

Cassena ocellata : Gressitt & Kimoto, 1963, Pac. Ins., 5(4) : 925 (N. Vietnam).

Distribution : Thailand, Laos, Vietnam.

Material examined. THAILAND : Khao Yai Nat. Park, 1 ex., 6. vi. 1965, K. Morimoto (KU). LAOS : Attopeu Prov., Houei Kong, 1 ex., 17. vii. 1965, 1 ex., 7. x. 1965, Native collr (BISHOP).

VIETNAM : Diling (Djiring), 1 ex., 27. ix.-14. x. 1960, C. M. Yoshimoto ; 17 km S. of Diling, 1,300 m, 1 ex., 6-13. x. 1960, C. M. Yoshimoto (BISHOP).

***Cassena rubyana* (Maulik), new combination** Fig. 55a

Cneorane rubyana Maulik, 1936, Fauna India, Galeruc. : 343 (Burma ; BM).

Distribution : Burma, Thailand, Laos, Vietnam.

Material examined. THAILAND: Chiangmai Prov., Doi Pui, 1,300 m, 1 ex., 17. vi. 1965, K. Morimoto (KU). LAOS : Vientiane Prov., Vientiane, 1 ex., 30. iv. 1965, Native collr ; Vientiane Prov., Ban Van Eue, 2 exs., 1-15. v. 1965, 1 ex., 15-31. v. 1965, J. A. Rondon ; Sedon Prov, Pakscng, 13 exs., 16. v. 1965, Native collr ; Sayaboury Prov., Sayaboury, 1 ex., 30. v. 1965, Native collr ; Khammouane Prov., Phon Tiou, 1 ex., 6. vii. 1965, Native collr (BISHOP) ; Umgeb. Vientiane, 4 exs., iii.-vi. 1963 ; Umgeb. Paklay, 1 ex., 1963 (MUNCHEN). VIETNAM : Ban Me Thuot, 500 m, 21 exs., 16-18. v. 1960, L. W. Quate ; 20 km N. of Pleiku, 1 ex., 650 m, 9. v. 1960, L. W. Quate (BISHOP).

***Cassena suturalis* n. sp.** Fig. 56b

Head and pronotum reddish brown, scutellum pitchy black ; elytron yellowish brown with sutural margin widely and basal, lateral and apical margins narrowly black ; antenna pitchy black with two or three basal segments brownish ; ventral surfaces reddish brown with abdomen pitchy brown ; legs pitchy brown to black with anterior and middle femora reddish brown.

Head with vertex smooth, shining, sparsely impressed by minute punctures, interocular space distinctly wider than transverse diameter of single oculus, and interocular transverse impression distinct, frontal tubercle subtriangular, oblique, contiguous, distinctly raised, surface smooth, shining. Antenna slender, nearly $\frac{3}{4}$ as long as length of body ; first segment long, robust, second shortest, nearly half as long as first, third $1\frac{1}{2}$ times as long as second, fourth slightly longer than second, fifth subequal to fourth in length and shape, sixth slightly shorter than fifth, sixth to eighth subequal to

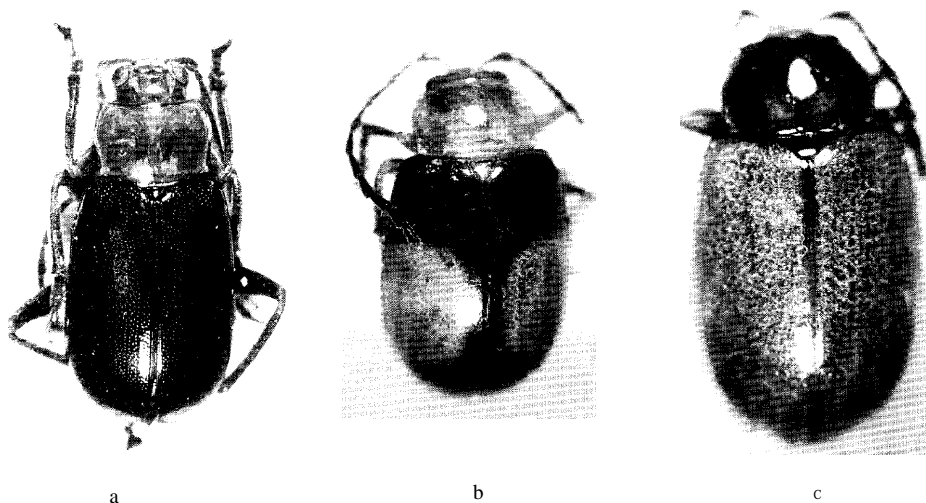


Fig. 55. a, *Cassena rubyana* (Maulik) ; b-c, *C. vietnamica* n. sp.

each other in length and shape, ninth slightly shorter than eighth, tenth subequal to ninth in length and shape, eleventh subequal to eighth in length but its apex pointed. Pronotum transverse, $1 \frac{2}{3}$ times as broad as long, anterior margin nearly straight, lateral margin distinctly rounded, widest almost at middle, distinctly narrowed anteriorly and posteriorly, basal margin distinctly rounded posteriorly, dorsal surface convex side to side, with a pair of short longitudinal furrows basally, sparsely impressed by fine punctures, and interstices of punctures smooth, shining. Scutellum subtriangular, smooth, shining, sparsely impressed by minute punctures. Elytron with lateral margin distinctly rounded, surface distinctly and closely punctate, and interstices of punctures smooth, shining.

Length : 3.8 mm.

Holotype (Type No. 2705, Kyushu Univ.) : THAILAND : Chiang Mai Prov., Doi Suthep, 1,000 m, 18. vi. 1965, K. Morimoto (KU). Paratypes : 7 exs., same data as the holotype ; 1 ex., collected by Y. Miyatake (KU, KIMOTO).

This new species somewhat resembles *Cassena oculata* Laboissière, but differs in having elytron yellowish brown with the sutural margin widely and the basal, the lateral and the apical margins narrowly blackish, and the ventral surfaces reddish brown with the abdomen pitchy brown.

***Cassena terminalis* (Gressitt & Kimoto) Fig. 54c**

Solephyma terminalis Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B : 662, fig. (S. China ; BISHOP).

Cassena terminalis : Gressitt & Kimoto, 1963, Pac. Ins., 5(4) : 925 (S. China).

Distribution : Thailand, China.

Material examined. THAILAND: Chiangmai, 1,200 m, 1 ex., 11. iv. 1966, J. Sedlacek (BISHOP).

***Cassena vietnamica* n. sp. Fig. 55b, c**

Generally reddish brown ; elytron yellowish brown with margins narrowly infusate, in some specimen dark brown with a large discal markings yellowish brown ; antenna pitchy black with three basal segments reddish brown ; legs dark brown with femora reddish brown.

Head with vertex smooth, shining, sparsely impressed by minute punctures, interocular space distinctly wider than transverse diameter of single oculus, and interocular transverse impression distinct, frontal tubercle transverse, subquadrate, contiguous, distinctly raised, surface smooth, shining. Antenna slender, nearly $\frac{3}{4}$ as long as body length ; first segment long, robust, second shortest, nearly half as long as first, third $1 \frac{2}{5}$ times as long as second, fourth slightly longer than third, fourth to eighth subequal to each other in length and shape, ninth slightly shorter than eighth, tenth subequal to ninth in length and shape, eleventh $1 \frac{1}{5}$ times as long as tenth and its apex pointed. Pronotum transverse, $1 \frac{1}{2}$ times as broad as long, anterior margin distinctly rounded anteriorly, lateral margin distinctly rounded, widest almost at middle, distinctly narrowed anteriorly and posteriorly, basal margin slightly rounded posteriorly, dorsal surface convex side to side, with a pair of short longitudinal furrows basally, sparsely impressed by fine punctures, and interstices of punctures smooth, shining. Scutellum subtriangular, smooth, shining, impunctate. Elytron with lateral margin rounded, surface distinctly and rather closely punctate, and interstices of punctures smooth, shining.

Length : 3.6-4.4 mm.

Holotype (BISHOP) : VIETNAM : 31 km S. of Dilinh (Djiring), 1,050 m, 29. iv. 1960, R. E. Leech. Paratopotypes : 10 exs., same data as the holotype (BISHOP, KIMOTO). Paratype : 20 km N. of Pleiku, 650 m, 1 ex., 9. v. 1960, S. Quate (BISHOP).

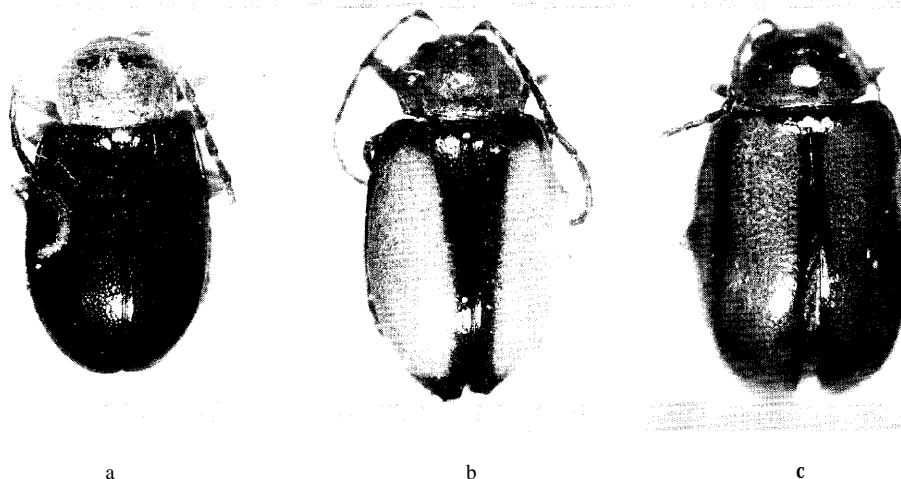


Fig. 56. a, *Cassena integricollis* (Jacoby); b, *C. suturalis* n. sp.; c, *Pseudoides flavovittis* (Motschulsky).

This new species resembles *Cassena oculata* Laboissière, but differs in being the body length shorter, and having elytron yellowish brown with the margins narrowly infusate and in the pale colored specimen dark brown with a large discal marking yellowish brown.

Genus **Cyclanthipha** Laboissière

Cyclanthipha Lab., 1932, Ann. Ass. Nat. Levallois-Perret, 20 : 136 (type : *Cyclanthipha ornata* Laboissière; Vietnam).

Cyclanthipha ornata (Laboissière)

Cyclanthipha ornata Lab., 1932, Ann. Ass. Nat. Levallois-Perret, 20 : 137, fig. (Tonkin; BRUXELLES).

Distribution : Thailand, Laos, Vietnam.

Short oval; generally reddish brown, elytron yellowish with a large median marking blackish and basal 2/3 of sutural margin narrowly reddish; antenna, tibiae and tarsi blackish; length 5.0-5.5 mm.

No additional material was examined beside the type series.

Genus **Vietoluperus** Medvedev & Dang Dap

Vietoluperus Medvedev & Dang Dap, 1981, Rev. d'Ent. l'USSR, 60 (3) : 632 (type : *Vietoluperus alleculoides* Medvedev & Dang Dap; Vietnam).

Vietoluperus alleculoides Medvedev & Dang Dap

Vietoluperus alleculoides Medvedev & Dang Dap. 1981, Rev. d'Ent. l'USSR, 60 (3) : 632 (Vietnam).

Distribution : Vietnam.

Body oblong, rather broad ; generally reddish brown, fourth to eleventh antennal segments, elytron, tibiae and tarsi blackish brown ; usually with base of tibiae and elytral humerus somewhat reddish brown and pronotum darkened. In general specimens, the color is uniformly reddish. Length 6.0-7.5 mm (after translation by Entomological Abs. : 111).

No material was examined.

Genus **Pseudoides** Jacoby

Pseudoides Jac., 1892, Ann. Mus. Civ. Genova, 32 : 966 (type : *Pseudoides bivittata* Jacoby ; monobasic).—Maulik, 1936, Fauna India, Galeruc. : 302.

Erganoides Jacoby, 1903, Ann. Soc. Ent. Belg., 47 : 125 (type : *Erganoides flavicollis* Jacoby ; S. India).—Ogloblin, 1936, Fauna USSR, 26, 1 : 300, 431.—Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B : 592. New **synonym**.

KEY TO SPECIES OF *Pseudoides*

Generally yellowish brown with vertex, scutellum and elytral margins pitchy black ; antenna pitchy brown with basal segments brownish ; legs yellowish brown with tibiae and tarsi blackish ; pronotum widest almost at middle and strongly narrowed anteriorly ; length 4.0 mm *pectoralis*
Generally yellowish brown, with vertex, scutellum, metathorax and abdomen pitchy brown to black ; elytron with a discal stripe, and sutural margins widely blackish ; antenna pitchy black with basal segments brownish ; pronotum widest almost at 1/3 from anterior margin and more strongly narrowed posteriorly ; length 3.3-3.8 mm *flavovittis*

Pseudoides flavovittis (Motschulsky) Fig. 56c

Calomicrus flavovittis Motsch., 1858, Etud. Ent., 7 : 101 (Burma).

Luperus flavovittis : Allard, 1889, Ann. Soc. Ent. France, 58 : 309 (Pnomh-Penh).

Pseudoides bivittata Jacoby, 1892, Ann. Mus. Civ. Genova, 32 : 966 (Burma ; GENOVA).—Maulik, 1936, Fauna India, Galeruc. : 303, fig. (Burma).—Wilcox, 1971, Col. Cat. Junk, Suppl., 78 : 153 (= *flavovittis*).

Erganoides flavovittis : Laboissike, 1935, Ann. Ass. Nat. Levallois-Per-ret, 21 : 141 (Cambodge, Birmanie, Tonkin) ; 1940, Bull. Mus. Hist. Nat. Belg., 16 (37) : 2 (Tonkin, Burma, Bhamo, Cambodia).

Pseudoides flavovittis : Wilcox, 1971, Col. Cat. Junk, Suppl., 78 : 153 (Burma, Cambodia, Vietnam).—Kimoto & Takizawa, 1973, Kontyû, Tokyo, 41 (2) : 177 (Nepal).—Kimoto, 1979, Ent. Basiliensia, 4 : 474, fig. (Bhutan).

Distribution : Burma, Nepal, Bhutan, Thailand, Cambodia, Laos, Vietnam.

Material examined. THAILAND : Trang Prov., Khaophapha, 2 exs., 30-31. vii. 1963, 4 exs., 1. i. 1964, 1 ex., 4. i. 1964, G. A. Samuelson ; Sattahib, 1 m, 1 ex., 24. xi. 1957, J. L. Gressitt ; 20 km NW of Ratburi, 1 ex., 15. viii. 1966, T. C. Maa (BISHOP) ; Sarapi, nr. Chiangmai, 7 exs., 18. vii. 1970, K. Yano (KU). LAOS : Vientiane Prov., Ban Van Eue, 1 ex., 1-15. v. 1965, J. A. Rondon, 14 exs., 15-31.

v. 1965, 35 exs., 31. v. 1966, 1 ex., 15. x. 1967, 1 ex., 30. ix. 1967, Native collr ; Vientiane Prov., Gi Sion Vill., de Tha Ngone, 1 ex., 7-21. ii. 1965, 50 exs., '2. i. 1966, Native collr ; Vientiane Prov., Dong Dok, 6 exs., 23. vii. 1965, Native collr ; Sedone Prov., Paksong, 1 ex., 26. vii. 1965, Native collr ; Nongteveda, 1 ex., 13. viii. 1965, Native collr (BISHOP). VIETNAM : Fyan, 1,200 m, 2 exs., 11. vii.-9. viii. 1961, N. R. Spencer ; Ninh Hoa, N. of Nha Trang, 12 ex., 28. xi. 1960, C. M. Yoshimoto ; Nha Trang, 1 ex., 17-26. xi. 1960, C. M. Yoshimoto ; 22 km S. of Nha Trang, 1 ex., 20-26. xi. 1960, C. M. Yoshimoto (BISHOP).

***Pseudoides pectoralis* (Laboissière), new combination** Fig. 3b

Erganoides pectoralis Lab., 1933, Bull. Mus. Hist. Nat. Paris, **ser.** 2, 5 : 205 (Tonkin : Hoa-Binh ; HAMBURG).

Distribution : Vietnam.

No additional material was examined.

Genus **Eumelepta** Jacoby

Eumelepta Jac., 1892, Ann. Mus. Civ. Genova, 32: 988 (type: *Eumelepta biplagiata* Jacoby Burma).-Maulik, 1936, Fauna India, Galeruc. : 304.

***Eumelepta biplagiata* Jacoby** Fig. 57a

Eumelepta biplagiata Jac., 1892, Ann. Mus. Civ. Genova, 32 : 988 (Burma ; GENOVA) ; 1900, Mém. Soc. Ent. Belg., 7 : 136 (mentioned).-Maulik, 1936, Fauna India, Galeruc. : 306 (Burma, Sumatra, Malay Peninsula : Kina Balu).

Distribution : Burma, Thailand, Laos, Vietnam, Borneo, Sumatra.

Suboval. Antenna robust ; pronotum smooth, shining, nearly impunctate ; elytron distinctly and closely punctate ; general color pitchy black, pronotum yellowish brown, elytron black with a large elongate marking yellowish brown, antenna pitchy brown, legs yellowish brown ; length 2.7 mm.

Material examined. THAILAND : Trang Prov., Khaophapha, Khaochang, 1 ex., 3-5. i. 1964, G. A. Samuelson, Bangkok, 1 m, 1 ex., 4. xii. 1957, T. C. Maa (BISHOP) ; Chiangmai Prov., Doi Suthep, 1,000 m, 2 exs., 18. vi. 1965, K. Morimoto & Y. Miyatake ; Chiangmai Prov., Chiang Dao, 1 ex., 15. vi. 1965, K. Morimoto (KU). LAOS : Borikhane Prov., Pakkading, 1 ex., 15. ix. 1965, J. L. Gressitt ; Nongteveda, 1 ex., 17. vii. 1965, Native collr (BISHOP). VIETNAM : Fyan, 1,200 m, 12 exs., 11. vii.-9. viii. 1961, N. R. Spencer ; Dalat, 1,550 m, 1 ex., 11. ix. 1960, J. L. Gressitt ; Dalat, 6 km S., 1,300-1,500 m, 17 exs., 9. vi.-7. vii. 1961, N. R. Spencer (BISHOP).

Genus **Hoplosaenidea** Laboissière

Cynorta Baly, 1865, Ann. Mag. Nat. Hist., ser. 3, 16 : '249 (nec Koch, 1839) (type : *Cynorta porrecta* Baly ; Java).-Laboissière, 1940, Bull. Mus. Hist. Nat. Belg., 16 (37) : 19 (as a synonym of *Diaphaenidea* Laboissière).

Hoplosaenidea Laboissière, 1933, Ann. Soc. Ent. France, 102 : 59 (type : *Hoplosaenidea touzalini* Laboissière ; Yunnan).-Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B : 666 (as *Haplosaenidea* : error).

Diaphaenidea Laboissière, 1933, *ibid.* 61 (type : *Diaphaenidea aerosa* Laboissière ; China).

Micraenidea Laboissière, 1933, *ibid.* : 64 (type : *Micraenidea coomani* Laboissière ; Tonkin).

Cynorita Laboissière, 1940, Bull. Mus. Hist. Nat. Belg., 16 (37) : 28 (type : *Cynorta citrina* Jacoby ; Philippines). New **synonym**.

Cynortana Strand, 1942, Folia Zool.-Hydrobiol., 11 : 391 (new name for *Cynorta* Baly, nec Koch).

KEY TO SPECIES OF *Hoplosaenidea*

- 1 Elytron not entirely greenish or bluish, but largely yellowish2
Elytron entirely greenish or bluish4
- 2(1) Ventral surfaces entirely yellowish brown ; dorsal surfaces, antenna and legs yellowish brown3
Ventral surfaces black with pro- and mesothorax yellowish brown ; generally yellowish brown, elytron with sutural and lateral margins blackish, in some specimen elytron almost entirely yellowish brown ; length 6.5-6.8 mm*nigrolimbata*
- 3(2) Body length 5.8-7.0 mm*lutea*
Body length 4.0 mm*testacea*
- 4(I) Ventral surfaces entirely brownish5
Ventral surfaces at least in part blackish7
- 5(4) Elytron impressed by strong punctures and their interstices subequal to or narrower than average diameter of punctures ; in male head without large cavity on middle6
Elytron impressed by fine punctures and their interstices clearly wider than average diameter of punctures ; in male head with a deep and large cavity at middle ; generally yellowish brown ; elytron bluish black ; length 3.6 mm*elegans*
- 6(5) Antenna with third segment nearly twice as long as second and fourth subequal to length of second and third combined ; yellowish to reddish brown ; elytron golden green ; antenna pitchy brown with basal segments much paler ; length 3.3-3.5 mm*coomani*
Antenna with second segment subequal to third in length, and fourth longer than length of second and third combined ; generally reddish brown, elytron golden green ; length 3.9 mm*viridis*
- 7(4) Body length shorter than 4.0 mm ; elytron with punctures closely and rugosely impressed, and their interstices distinctly narrower than average diameter of punctures, and distinctly raised*cornuta*
Body length over 5.0 mm ; elytron with punctures finely impressed, and their interstices much wider than average diameter of punctures and finely granulate ; generally yellowish brown with elytron, metathorax and abdomen largely bluish black ; in male head with a large and deep cavity on middle ; length 5.0-6.5 mm*cornuta*
- 8(7) Head entirely yellowish brown ; legs with tibiae and tarsi largely or partly blackish ; generally yellowish brown, elytron greenish blue, antenna, meso- and metathorax and abdomen pitchy black ; in male head with a large and deep cavity on middle ; length 3.5-3.9 mm*laosensis*
Head yellowish brown with vertex more or less greenish ; legs entirely yellowish brown ; generally yellowish brown, elytron golden green, antenna pitchy brown, meso- and metathorax and abdomen pitchy black ; in male head without distinct cavity ; length 3.3-3.8 mm*rugosa*

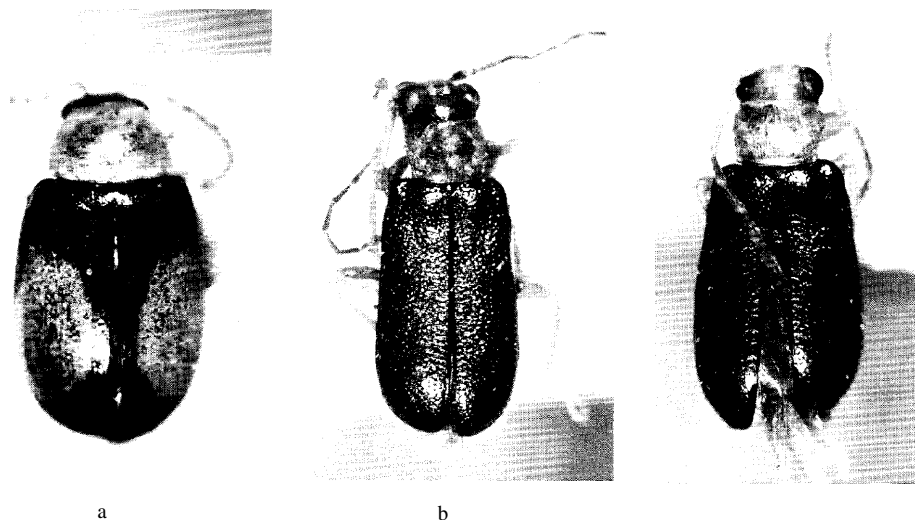


Fig. 57. a, *Eumelepta bipagiata* Jacoby; b, *Hoplosaenidea rugosa* n. sp.; c, *H. coomani* (Laboissière).

***Hoplosaenidea coomani* (Laboissière) Fig. 57c**

Micraenidea coomani Lab., 1933, Ann. Soc. Ent. France, 102 : 64 (Tonkin; HAMBURG).

Hoplosaenidea coomani : Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B : 669 (Tonkin : Hoa-binh).

Distribution : Laos, Vietnam.

Material examined. LAOS: Sedone Prov., Paksong, 18. v. 1965, P. D. Ashlock (BISHOP). VIETNAM : Dalat, 1,500 m, 5 exs., 29. iv.-4. v. 1960, L. W. Quate ; Dalat, 6 km S, 1,400-1,500 m, 2 exs., 9. vi.-7. vii. 1961, N. R. Spencer; 18 km NW of Dalat, 1300 m, 7 exs., 4-5. v. 1960, L. W. Quate ; Biao (Balao), 500 m, 4 exs., 14-21. x. 1960, C. M. Yoshimoto ; Mt. Lang Bian, 1,500 m, 6 exs., 29. iv.-4. v. 1960, L. W. Quate ; Fyan, 900-1,200 m, 4 exs., 11. vii.-9. viii. 1961, N. R. Spencer ; Ap Hung-Lam, 21 km NW of Dilinh, 1,100 m, 1 ex., 29. ix.-5. x. 1960, C. M. Yoshimoto (BISHOP).

***Hoplosaenidea cornuta* (Laboissière)**

Diaphaenidea cornuta Lab., 1933, Ann. Soc. Ent. France, 102 : 63 (Tonkin; HAMBURG).

Hoplosaenidea cornuta : Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B : 669 (Tonkin : Hoa-Binh).

Distribution : Vietnam.

No additional material was examined.

***Hoplosaenidea elegans* n. sp. Fig. 58c**

Generally yellowish brown, elytron bluish black ; antenna dark yellowish brown, with three or four basal segments yellowish brown.

Head with vertex finely granulate, sparsely impressed by minute punctures, interocular space much wider than transverse diameter of single oculus, and interocular transverse impression distinct, frontal tubercle elongate, subtriangular, contiguous, distinctly raised, surface finely granulate. Antenna slender, nearly 2/3 as long as body length ; first segment long, robust, second shortest, nearly

1/5 as long as first, third four times as long as second, fourth twice as long as third, fourth to eighth subequal to each other in length and shape, ninth slightly shorter than eighth, tenth subequal to ninth in length and shape, eleventh subequal to eighth in length but its apex pointed. Pronotum transverse, 1 2/5 times as broad as long, anterior margin nearly straight, lateral margin slightly rounded, widest almost at 1/3 from anterior margin, slightly narrowed anteriorly and more strongly so posteriorly, basal margin slightly rounded posteriorly, dorsal surface convex, with a pair of large depressions laterally, finely granulate, nearly impunctate. Scutellum subtriangular, finely granulate, impunctate. Elytron with lateral margin subparallel-sided, apex rounded, surface impressed by an oblique sub-basal and an elongate lateral furrows, and finely granulate and impressed by fine punctures and their interstices clearly wider than average diameter of punctures.

Male : Head with vertex impressed by a deep and large cavity at middle ; fifth abdominal segment trilobed, median lobe generally flat. **Female** : Head with vertex convex ; fifth abdominal segment entire.

Length : 3.6 mm.

Holotype (BISHOP) : LAOS : Vientiane Prov., Ban Van Eue, 15. viii. 1965, Native collr. Paratypes : THAILAND : Chiangmai, 1,500 m, 1 ex., 11-12. iv. 1966, J. Sedlacek, 1 ex., 1,100-1,500 m, no data, 1966, J. Sedlacek (BISHOP). LAOS : Vientiane Prov., Ban Van Eue, 1 ex., 12. iv. 1965, J. L. Gressitt (KIMOTO).

This new species resembles *Hoplosaenidea coomani* (Laboissière), but differs in having elytron covered by much finer punctures, and in the male the head with a deep and large cavity at the middle.

***Hoplosaenidea laosensis* n. sp.** Fig. 58b

Generally yellowish brown, scutellum pitchy brown, elytron greenish blue, antenna pitchy black with one or two basal segments brownish, ventral surfaces with meso- and metathorax and abdomen pitchy black, legs with tibiae and tarsi pitchy black.

Head with vertex smooth, shining, sparsely impressed by minute punctures, interocular space slightly wider than transverse diameter of single oculus, and interocular transverse impression distinct, frontal tubercle subtriangular, contiguous, distinctly raised, surface smooth, shining. Antenna slender, nearly 2/3 as long as body length ; first segment long, second shortest, nearly 1/3 as long as first, third twice as long as second, fourth 1 1/2 times as long as third, fifth slightly shorter than fourth, fifth to seventh subequal to each other in length and shape, eighth slightly shorter than seventh, eighth to tenth subequal to each other in length and shape, eleventh subequal to tenth in length but its apex pointed. Pronotum transverse, 1 2/5 times as broad as long, anterior margin nearly straight, lateral margin distinctly rounded, widest almost at 1/3 from anterior margin, slightly narrowed anteriorly and more strongly so posteriorly, basal margin feebly rounded posteriorly, dorsal surface convex, smooth, shining, with a pair of deep, oblique depressions which are united at middle, sparsely impressed by minute punctures. Scutellum subtriangular, smooth, shining, impunctate. Elytron with lateral margin subparallel-sided, apex rounded, surface strongly and closely punctate and their interstices clearly narrower than average diameter of punctures, and finely granulate.

Male : Head with vertex impressed by a deep and large cavity at middle ; fifth abdominal segment trilobed apically. **Female** : Unknown.

Length : 3.5-3.9 mm.

Holotype (BISHOP) : LAOS : Vientiane, 31. v.-3. vi. 1960, S. Quate & L. Quate. Paratopotypes : 2 exs., same data as the holotype (BISHOP, KIMOTO).

This new species resembles *Hoplosaenidea rugosa* Kimoto, but differs in having the legs yellowish brown with tibiae and tarsi pitchy black and in the male the head with a large and deep cavity at the

middle.

***Hoplosaenidea lutea* (Laboissière), new combination**

Macrimalutea Laboissiere, 1936, Ann. Soc. Ent. France, 105 : 245 (Tonkin : Hoa-Binh ; HAM-BURG).

Cynorita lutea : Laboissière, 1940, Bull. Mus. Hist. Nat. Belg., 16 (37) : 30 (Tonkin : Hoa-Binh).

Distribution : Thailand, Cambodia, Laos, Vietnam.

Material examined. THAILAND : Chiangmai Prov., Doi Suthep, 900 m, 1 ex., 14. xi. 1958, J. L. Gressitt, 1 ex., 29. iii.-4. iv. 1958, 2 exs., 1-5. iv. 1958, T. C. Maa ; Chiangmai Prov., Chieng Dao, 5-11. iv. 1958, T. C. Maa ; Pakchong, 100 m, NE of Bangkok, 3 exs., 3. xii. 1957, J. L. Gressitt ; 50 km West of Tak, 900 m, 1 ex., 7-8. iv. 1966, J. Sedlacek ; Banna, Nakhon, 108 m, 1 ex., 5-10. v. 1958, T. C. Maa ; Nakhon Nayok Prov., Khao Yai Nat. Park, 1 ex., 6. vi. 1965, P. D. Ashlock ; Muak Lek, 1 ex., 6. iii. 1963, Native collr (BISHOP) ; Chiangmai Prov., Doi Suthep, 1,000 m, 2 exs., 12. vi. 1965, K. Morimoto (KU) ; Nakhon Ratchasima, 2 exs., 30. vi. 1962 (BANGKHEN). CAMBODIA : Damarey Phong, 3 exs., 14-16. iv. 1961, N. R. Spencer (BISHOP). LAOS : Vientiane Prov., Vientiane, 1 ex., iii. 1966, J. Sedlacek ; Vientiane Prov., Ban Van Eue, 1 ex., 15. v. 1965, 2 exs., 31. vii. 1965, Native collr ; Sedone Prov., Paksong, 1 ex., 1. vi. 1965, Native collr ; Borikhane Prov., Pakkading, 1 ex., 23. iv. 1965, J. L. Gressitt, 1 ex., 13. vii. 1965, 1 ex., 15-31. viii. 1965, Native collr ; Namkading nr. Pakkading, 1 ex., 21. iv. 1965, J. L. Gressitt ; Pon-horn, N. of Pakkading, 1 ex., 20. iv. 1965, J. L. Gressitt (BISHOP) ; Umgeb. Vientiane, 1 ex., iii-vi. 1963 (MUNCHEN). VIETNAM : 20 km N. of Pleiku, 650 m, 1 ex., 9. v. 1960, L. W. Quate ; Dalat, 6 km S., 1,500 m, 1 ex., 9. v. 1960, L. W. Quate ; Chute de Bola, 7 km W. of Dilinh (Djiring), 840 m, 1 ex., 27. iv. 1960, R. E. Leech (BISHOP).

***Hoplosaenidea nigrolimbata* (Jacoby), new combination** Fig. 59a

Macrimal nigrolimbata Jac., 1889, Stett. Ent. Ztg., 60 : 308 (Sumatra).-Laboissiere, 1936, Ann. Soc.

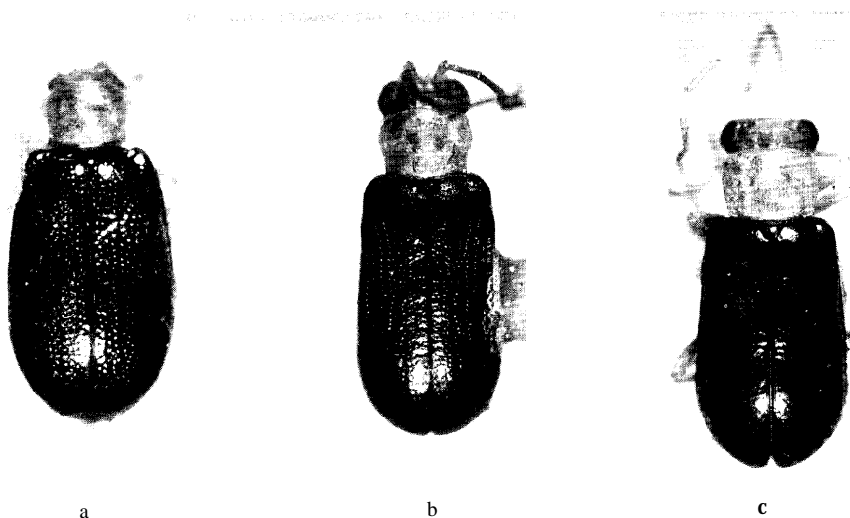


Fig. 58. a, *Hoplosaenidea viridis* n. sp. ; b, *H. laosensis* n. sp. ; c, *H. elegans* n. sp.

Ent. France, 105: 245 (Tonkin: Hoa-Binh).

Cynorta nigrolimbata: Laboissière, 1940, Bull. Mus. Hist. Nat Belg., 16 (37) : 30 (Tonkin: Hoa-Binh).

Cynorta trilineata: Chûjô, 1964, Nature and Life in SE Asia, Kyoto, 3 : 289, fig. (Thailand).

Distribution : Thailand, Laos, Vietnam, Sumatra.

Material examined. THAILAND : Trang Prov., Khaophapha, Kaochong, 200-400 m, 1 ex., 13. i. 1964, G. A. Samuelson (BISHOP) ; Khao Yai Nat. Park, 1 ex., 6. vi. 1965, Y. Miyatake ; Khao Chong, nr. Trung, 1 ex., 26. vi. 1965, Y. Miyatake ; Kao Chong Park, 1 ex., 1. iii. 1965, K. Yasumatsu (KU) ; Khon Kaen, 1 ex., 8. x. 1981, S. Azuma (RU). LAOS : Vientiane Prov., Ban Van Eue, 1 ex., 13. iv. 1965, J. L. Gressitt, 1 ex., 15. ii. 1965, 1 ex., 17. ii. 1965, 2 exs., 15-31. iv. 1965, 1 ex., 15-31. v. 1965, 7 exs., 30. vi. 1965, 1 ex., 31. vii. 1965, 1 ex., 15. viii. 1965, 1 ex., 30. xi. 1965, 1 ex., 15. v. 1967, 1 ex., 15. ix. 1967, 1 ex., 30. ix. 1967, Native collr ; Wapithamthong Prov., Khong Sedone, 1 ex., 17. ix. 1965, Native collr ; Sayaboury Prov., Sayaboury, 1 ex., 15. iv. 1965, J. L. Gressitt ; Namkading, nr. Pakkading, 1 ex., 21. iv. 1965, J. L. Gressitt (BISHOP) ; Umgeb. Vientiane, 2 exs., iii.-vi. 1963 ; Umgeb. Vanky, 2 exs., 1963 (MUNCHEN). VIETNAM : Karyu Danar, 200 m, 4 exs., 13-28. ii. 1961, N. R. Spencer ; Dilinh (Djiring), 1 ex., 27. ix.-14. x. 1960, C. M. Yoshimoto ; Banme Thuot, 500 m, 1 ex., 16-18. v. 1960, R. E. Leech (BISHOP).

***Hoplosaenidea rugosa* n. sp. Fig. 57b**

Generally yellowish to reddish brown, scutellum pitchy black, elytron golden green, antenna pitchy brown with three or four basal segments reddish brown, ventral surfaces with meso- and metathorax and abdomen pitchy black ; in some specimen head with vertex pitchy brown with slightly greenish luster.

Head with vertex finely granulate, sparsely impressed by minute punctures, interocular space much wider than transverse diameter of single oculus, and interocular transverse impression distinct, frontal tubercle subtriangular, contiguous, distinctly raised, surface finely granulate. Antenna slender, nearly as long as body length ; first segment long, robust, second shortest, nearly $1/4$ as long as first, third $2\frac{1}{2}$ times as long as second, fourth $1\frac{2}{3}$ times as long as third, fifth slightly shorter than fourth, fifth to eighth subequal to each other in length and shape, ninth slightly shorter than eighth, tenth subequal to ninth in length and shape, eleventh subequal to eighth in length but its apex pointed. Pronotum transverse, $1\frac{1}{3}$ times as broad as long, anterior margin nearly straight, lateral margin slightly rounded, widest almost at $1/3$ from anterior margin, slightly narrowed anteriorly and more strongly so posteriorly, basal margin slightly rounded posteriorly, dorsal surface convex, with a pair of deep depressions laterally, finely granulate, sparsely impressed by fine punctures. Scutellum subtriangular, finely granulate, impunctate. Elytron with lateral margin subparallel-sided, apex rounded, surface impressed by an oblique subbasal depression, and closely and rugosely punctate, and their interstices finely granulate.

Male : Fifth abdominal segment trilobed, median lobe generally flat. **Female** : Fifth abdominal segment entire.

Length : 3.3-3.8 mm.

Holotype (BISHOP) : VIETNAM : 20 km N. of Pleiku, 650 m, 9. v. 1960, S. Quate. Paratopotype : 1 ex., same data as the holotype. Paratypes : VIETNAM : Blao (Balao), 500 m, 2 exs., 14-21. x. 1960, C. M. Yoshimoto ; 28 km N. of Dilinh (Djiring), 1 ex., 22-28. iv. 1960, S. Quate (BISHOP, KIMOTO).

This new species resembles *Hoplosaenidea coomani* (Laboissière), but differs in having elytron closely and rugosely punctate and the ventral surfaces with meso- and metathorax and the abdomen pitchy black.

***Hoplosaenidea testacea* (Allard), new combination**

Luperus testaceus All., 1889, Ann. Soc. Ent. France, ser. 6, 9 : 309 (Cambodia ; PARIS, HAMBURG).

Macrima testacea : Laboissière, 1935, Ann. Ass. Nat. Levallois-Perret, 21 : 141 (genus) ; 1936, Ann. Soc. Ent. France, 105 : 244 (Cambodge : Pnom Penh).

Cynorita testacea : Laboissière, 1940, Bull. Mus. Hist. Nat. Belg., 16(37) : 30 (genus).

Distribution : Cambodia.

No additional material was examined beside the type specimen. This species closely resembles *Hoplosaenidea lutea* (Laboissiere), but is much smaller.

***Hoplosaenidea viridis* n. sp.** Fig. 58a

Generally reddish brown, scutellum pitchy black, elytron golden green.

Head with vertex smooth, shining, sparsely impressed by minute punctures, interocular space much wider than transverse diameter of single oculus, and interocular transverse impression distinct, frontal tubercle transverse, contiguous, distinctly raised, surface smooth, shining. Antenna slender, nearly 2/3 as long as body length ; first segment long, robust, second shortest, nearly 2/3 as long as first, third subequal to seventh in length but more slenderer, fourth twice as long as third, fourth to seventh subequal to each other in length and shape, eighth slightly shorter than seventh, eighth to tenth subequal to each other in length and shape, eleventh subequal to seventh in length but its apex pointed. Pronotum transverse, 1 1/4 times as broad as long, anterior margin slightly rounded anteriorly, lateral margin distinctly rounded, widest almost at 1/3 from anterior margin, slightly narrowed anteriorly and more strongly so posteriorly, basal margin slightly rounded posteriorly, dorsal surface convex, smooth, shining, with a transverse depression subbasally, sparsely impressed by fine punctures. Scutellum subtriangular, smooth, shining, sparsely impressed by minute punctures. Elytron with lateral margin slightly rounded, surface closely and distinctly punctate, and their interstices subequal to or narrower than average diameter of punctures, and their interstices smooth, shining.

Male : Fifth abdominal segment with a pair of short notches apically. Female : Fifth abdominal segment entire.

Length : 3.9 mm.

Holotype (BISHOP) : VIETNAM : Fyan, 900-1,200 m, 11. vii.-9. viii. 1961, N. R. Spencer. Paratopotypes : 6 exs., same data the holotype (BISHOP, KIMOTO). Paratypes : VIETNAM : Dalat, 6 km S., 1,400-1,500 m, 1 ex., 9. vi.-7. vii. 1961, N. R. Spencer ; 6 km SE, Dalat, 1,500 m, 1 ex., 11. ix. 1960, J. L. Gressitt (BISHOP).

This new species resembles *Hoplosaenidea coomani* (Laboissiere), but differs in being the body length longer, and having the second antennal segment subequal to the third segment in the length.

Genus *Sinoluperoides* n. gen.

Antennal insertions widely separated by frons ; labrum bilobed apically ; gena very narrow ; frontal tubercles widely separated by frons ; antenna with third segment distinctly longer than second ; prothorax with a transverse furrow subbasally, and with lateral and basal margins distinctly marginate ; elytron with punctures irregularly impressed, with distinct subbasal furrow, epipleuron wide at base and gradually narrowed to apex ; prosternal process not elevated between anterior coxae ; anterior coxal cavity closed posteriorly ; middle and posterior tibiae distinctly spined apical-

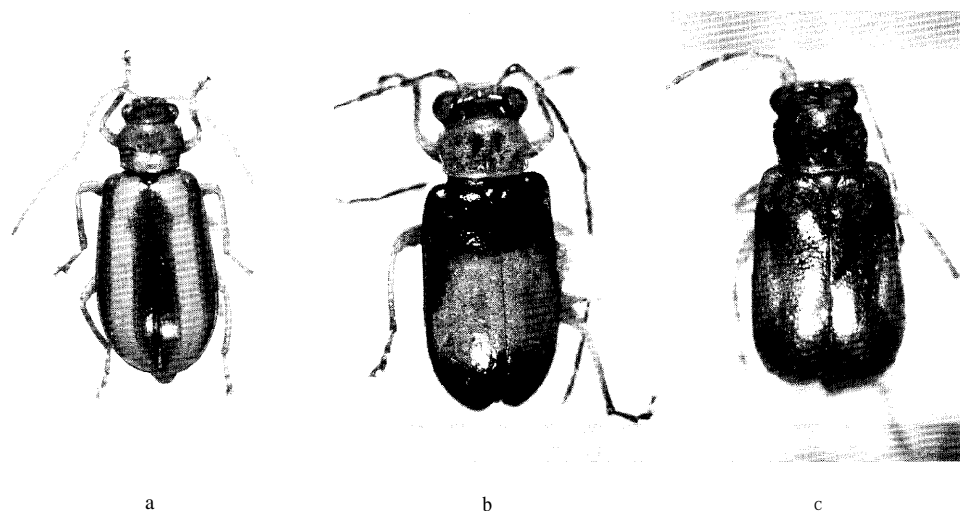


Fig. 59. a, *Hoplosaenidea nigrolimbata* (Jacoby); b, *Sinoluperoides antennatus* n. sp.; c, *S. maculatus* n. sp.

ly; tarsal claws appendiculate and first tarsal segment of posterior leg longer than length of second and third segments combined.

Type species: *Sinoluperoides maculatus* Kimoto.

This new genus closely resembles *Hoplosaenidea* Laboissière, but differs in having frontal tubercles widely separated by frons, and the anterior margin of clypeus emarginate. Also, from *Sinoluperus* Gressitt & Kimoto, this new genus is separable in having the middle and the posterior tibiae with a spine at the apex.

KEY TO SPECIES OF *Sinoluperoides*

- 1 Elytron without distinct subbasal transverse furrow 2
- Elytron with distinct subbasal transverse furrow; pronotum with a transverse furrow deeper and the furrow distinctly punctate especially on lateral portion; coloration variable, in most pale colored specimen generally yellowish brown, in dark colored specimen elytron with lateral and apical margins, in some cases post-humeral area also, blackish, pronotum partly blackish, especially on lateral part in various degrees, head with middle and lateral parts of vertex blackish, antenna pitchy black, ventral surfaces with metathorax dark brown, legs in part dark brown; length 3.8-4.2 mm *maculatus*
- 2(1) Pronotum with transverse furrow deeper 3
- Pronotum with transverse furrow shallower and sparsely impressed by fine punctures; generally yellowish to reddish brown, elytron with margins widely pitchy black; meso- and metathorax, antenna and legs generally pitchy brown to black; in dark colored specimen pronotum and abdomen pitchy black; length 4.2 mm *marginalis*
- 3(2) Body length shorter; pronotum with transverse furrow which is sparsely impressed by fine punctures; generally yellowish brown; in male elytron black with median mark-

ing yellowish brown, metathorax and abdomen pitchy brown, and antenna thickly covered by long hairs from second to eleventh segments ; in female elytron yellowish brown with basal margin and basal part of lateral and sutural margins blackish, ventral surfaces with metathorax blackish ; length 3.8 mm *antennatus*
 Body length longer ; pronotum with a transverse furrow which is impressed by strong punctures rather closely ; generally yellowish brown ; in male antenna not covered by long hairs ; length 6.2 mm *major*

***Sinoluperoides antenna tus* n.sp.** Fig. 59b

Generally yellowish brown ; in male elytron black with median marking yellowish brown, and metathorax and abdomen pitchy brown ; in female elytron yellowish brown with basal margin and basal part of lateral and sutural margins blackish ; antenna generally pitchy black.

Head with vertex smooth, shining, sparsely impressed by minute punctures, interocular space much wider than transverse diameter of single oculus, and interocular transverse impression distinct, frontal tubercle oblique, subquadrate, separated to each other, distinctly raised, surface smooth, shining. Antenna slender, nearly as long as body length ; first segment long, second shortest, nearly 1/5 as long as first, third five times as long as second, fourth 1 1/2 times as long as third, fifth slightly shorter than fourth, fifth to eighth subequal to each other in length and shape, ninth slightly shorter than eighth, tenth subequal to ninth in length and shape, eleventh subequal to eighth in length and its apex pointed. Pronotum transverse, 1 2/3 times as broad as long, anterior margin slightly rounded anteriorly, sides strongly rounded, widest at 1/3 from anterior margin, and slightly narrowed anteriorly and more strongly so posteriorly, basal margin distinctly rounded posteriorly, dorsal surface convex, smooth, shining, with a transverse subbasal depression, and sparsely impressed by distinct punctures. Scutellum subtriangular, smooth, shining, sparsely impressed by minute punctures. Elytron with lateral margin subparallel-sided, surface closely impressed by distinct punctures and their interstices smooth, shining.

Male : Antenna with second to eleventh segments thickly covered by long hairs ; fifth abdominal segment trilobed, median lobe longitudinally sulcate. **Female** : Antenna not covered by long hairs ; fifth abdominal segment entire.

Length : 3.8 mm.

Holotype (BISHOP): LAOS: 800 m, Ban-van-eue, SE of Phou-kow-kuei, 11. iv. 1965, J. L. Gressitt. Paratopotype : 1 ex., same data as the holotype (BISHOP). Paratypes : LAOS : Ban Van Eue, 1 ex., 12. iv. 1965, 1 ex., 13. iv. 1965, J. L. Gressitt, 1 ex., 15-31. v. 1965, 1 ex., 15. ii. 1966, Native collr ; 800 m, Phou-kow-kuei, 1 ex., 16. iv. 1965, J. L. Gressitt ; Sayaboury Prov., Sayaboury, 1 ex., 15. iv. 1965, J. L. Gressitt (BISHOP, KIMOTO).

This new species resembles *Sinoluperoides marginalis* Kimoto, but differs in having pronotum with a transverse subbasal furrow and in the male antenna with the second to the eleventh segments covered by long hairs.

***Sinoluperoides macula tus* n.sp.** Fig. 59c

Coloration variable, in most pale colored specimen generally yellowish brown, in dark colored specimen elytron with lateral and apical margins, in some cases post humeral area also, blackish, pronotum partly blackish, especially on lateral part in various degrees, head with middle and lateral parts of vertex blackish, antenna pitchy black, ventral surfaces with metathorax dark brown, legs in part dark brown.

Head with vertex somewhat wrinkled, sparsely impressed by fine punctures, interocular space much wider than transverse diameter of single oculus, and interocular transverse impression distinct, frontal tubercle oblique, separated to each other, distinctly raised, surface smooth, shining. Antenna slender, nearly as long as body length ; first segment long, second shortest, nearly $1/3$ as long as first, third $2\frac{1}{3}$ times as long as second, fourth slightly longer than third, fifth slightly shorter than fourth, sixth to seventh subequal to each other in length and shape, eighth slightly shorter than seventh, eighth to tenth subequal to each other in length and shape, eleventh subequal to seventh in length and its apex pointed. Pronotum transverse, $1\frac{1}{2}$ times as broad as long, anterior margin nearly straight, lateral margin slightly rounded, widest slightly before middle, slightly narrowed anteriorly and more strongly so posteriorly, basal margin distinctly rounded posteriorly, dorsal surface convex, smooth, shining, with a pair of transverse depressions subbasally, punctures generally finer and sparser, but more stronger and closer on subbasal depression. Scutellum subtriangular, smooth, shining, sparsely impressed by minute punctures. Elytron with lateral margin subparallel-sided, surface impressed by a transverse furrow subbasally, and closely impressed by distinct punctures and their interstices smooth, shining.

Length: 3.8-4.2 mm.

Holotype (BISHOP) : VIETNAM : Dalat, 1,500 m, 29. iv.-4. v. 1960, S. Quate & L. Quate. Paratopotypes: 5 exs., same-data as the holotype (BISHOP, KIMOTO). Paratypes : VIETNAM : Dalat, 6 km S., 1,400-1,500 m, 6 exs., 9. vi.-7. vii. 1961, N. R. Spencer; 18 km NW of Dalat, 1 ex., 1,300 m, 4-5. v. 1960, L. W. Quate ; Fyan, 900-1,200 m, 9 exs., 11. vii.-9. viii. 1961, N. R. Spencer ; Mt. Lang Bian, 1,500-2,000 m, 4 exs., 19. v.-8. vi. 1961, N. R. Spencer ; 25 km SW of Pleiku, 400 m, 1 ex., 12. v. 1960, L. W. Quate ; 20 km N. of Pleiku, 650 m, 1 ex., 9. v. 1960, S. Quate ; Ban Me Thuot, 500 m, 1 ex., 16-18. v. 1960, L. Quate ; 76 km SW of Ban Me Thuot, 1 ex., 855 m, 1 ex., 20. v. 1960, R. E. Leech ; Dak Song, 76 km SW of Ban Me Thuot, 870 m, 1 ex., 19-21. v. 1960, light trap, S. Quate & L. Quate (BISHOP).

This new species somewhat resembles *Sinoluperoides major* Kimoto, but differs in being the body length shorter, and having elytron with a subbasal transverse furrow.

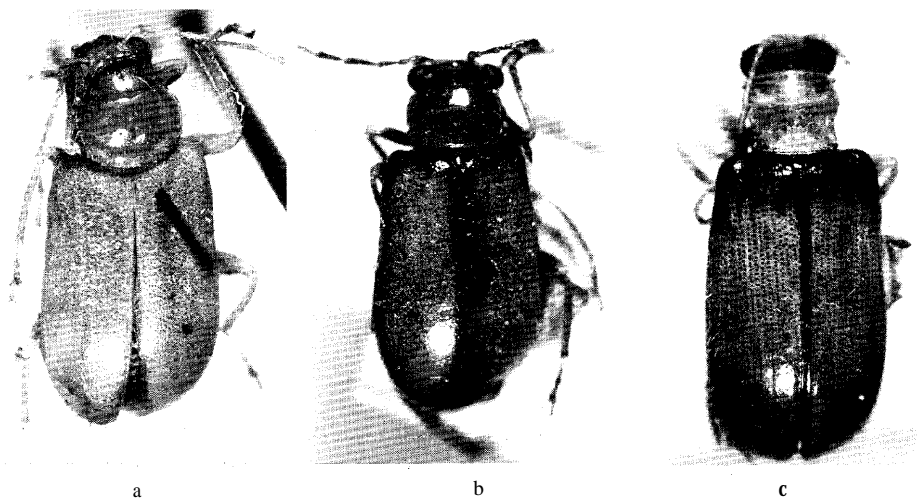


Fig. 60. a, *Sinoluperoides major* n. sp. ; b, *S. marginalis* n. sp. ; c, *Doryscus testaceus* Jacoby.

***Sinoluperoides major* n. sp.** Fig. 60a

Entirely yellowish brown.

Head with vertex somewhat wrinkled, sparsely impressed by minute punctures, interocular space much wider than transverse diameter of single oculus, and interocular transverse impression distinct, frontal tubercle oblique, subquadrate, separated to each other, distinctly raised, surface smooth, shining. Antenna slender, nearly as long as body length ; first segment long, second shortest, nearly 1/4 as long as first, third four times as long as second, fourth slightly longer than third, fifth slightly shorter than fourth, sixth slightly shorter than fifth, seventh slightly shorter than sixth, seventh to ninth subequal to each other in length and shape, tenth slightly shorter than ninth, eleventh subequal to ninth in length and its apex pointed. Pronotum transverse, 1 1/2 times as broad as long, anterior margin nearly straight, lateral margin strongly rounded, widest slightly before middle, strongly narrowed anteriorly and posteriorly, basal margin distinctly rounded posteriorly, dorsal surface convex, smooth, shining, with a transverse subbasal depression, punctures generally finer and sparser, but more stronger and closer on subbasal depression. Scutellum, subtriangular, smooth, shining, sparsely impressed by minute punctures. Elytron with lateral margin slightly rounded, surface closely impressed by distinct punctures and their interstices smooth, shining.

Length : 6.2 mm.

Holotype (BISHOP) : VIETNAM : Dak Song, 76 km SE of Ban Me Thuot, 870 m, 19-21. v. 1960, L. W. Quate. Paratypes: VIETNAM : 10 km E. of Ban Me Thuot, 570 m, 1 ex., 10. v. 1960., R. E. Leech ; 76 km SW of Ban Me Thuot, 855 m, 1 ex., 20. v. 1960, R. E. Leech (BISHOP).

This new species resembles *Sinoluperoides antennatus* Kimoto, but differs in being the body length longer, and having pronotum with a subbasal transverse furrow which is more closely and strongly punctate.

***Sinoluperoides marginalis* n. sp.** Fig: 60b

Generally yellowish to reddish brown, elytron yellowish brown, with basal, lateral, sutural and apical margins widely pitchy black, antenna pitchy black with one or two basal segments reddish brown ; ventral surfaces with meso- and metathorax pitchy black ; in dark colored specimen pronotum and abdomen generally pitchy black.

Head with vertex smooth, shining, sparsely impressed by minute punctures, interocular space much wider than transverse diameter of single oculus, and interocular transverse impression distinct, frontal tubercle oblique, subquadrate, separated to each other, distinctly raised, surface smooth, shining. Antenna slender, nearly as long as body length ; first segment long, second shortest, nearly 1/4 as long as first, third three times as long as second, fourth slightly longer than third, fifth slightly shorter than fourth, fifth to tenth subequal to each other in length and shape, eleventh slightly longer than tenth and its apex pointed. Pronotum transverse, twice as broad as long, anterior margin nearly straight, lateral margin slightly rounded, widest slightly before middle, slightly narrowed anteriorly and more strongly so posteriorly, basal margin distinctly rounded posteriorly, dorsal surface convex, smooth, shining, with a pair of feeble depressions laterally, sparsely impressed by fine punctures. Scutellum subtriangular, smooth, shining, sparsely impressed by minute punctures. Elytron with lateral margin subparallel-sided, apex rounded, surface rather closely impressed by distinct punctures, and their interstices smooth, shining.

Length : 4.2 mm.

Holotype (BISHOP) : VIETNAM : Fyan, 900-1,000 m, 11. vii.-9. viii. 1961, N. R. Spencer. Paratypes : 5 exs., same data as the holotype (BISHOP, KIMOTO).

This new species resembles *Sinoluperoides major* Kimoto, but differs in having pronotum with a pair of feeble depressions laterally, and elytron with the margins entirely blackish.

Genus **Doryscus** Jacoby

Doryscus Jac., 1887, Proc. 2001. Soc. London, 1887 : 115 (type : *Doryscus testaceus* Jacoby; monobasic).-Maulik, 1936, Fauna India, Galeruc.:75.—Chûjô, 1962, Phil. J. Sci., 91(1-2): 16.

Doryscus testaceus Jacoby Fig. 60c

Doryscus testaceus Jac., 1887, Proc. Zool. Soc. London, 1887 : 115 (Ceylon ; BM).—Jacoby, 1896, Ann. Mus. Civ. Genova, 36 : 498 (Sumatra).- Jacoby, 1896, Ann. Soc. Ent. Belg., 40 : 300 (India, Sumatra).-Maulik, 1936, Fauna India, Galeruc. : 77, fig. (Ceylon, India, Tonkin ; Hoa-Binh).—Chûjô, 1962, Phil. J. Sci., 91(1-2): 17, figs. (Taiwan).-Kimoto, 1969, Esakia, Kyushu Univ., (7) : 57 (Taiwan).-Kimoto & Takizawa, 1972, Kontyû, Tokyo, 40(4) : 222 (Nepal).-Kimoto, 1979, Ent. Basiliensia, 4 : 474 (Nepal, Darjeeling).

Trichobalya varians Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B : 674 (SE China ; BISHOP) ; 1965, Pac. Ins., 7 : 802 (= *testaceus*).

Distribution : India, Ceylon, Thailand, Vietnam, China, Taiwan, Philippines, Sumatra.

Elongate, pronotum distinctly constricted behind middle and with some distinct erect hairs marginally ; elytron impressed by regularly arranged longitudinal rows of punctures, and covered with fine erect hairs ; general color yellowish to reddish brown, in some specimen partly blackish in various degrees ; length 3.2-4.8 mm.

Material examined. THAILAND : Chiangmai Prov., Doi Suthep, 1,300 m, 1 ex., 8. vi. 1965, P. D. Ashlock (BISHOP) ; Chiangmai Prov., Doi Pui, 1 ex., 8. vi. 1965. 1 ex., 17. vi. 1965, Y. Miyatake ; Chiangmai Prov., Doi Suthep, 1,000 m, 2 exs., 18. vi. 1965, K. Morimoto & Y. Miyatake (KU) ; Khon Kaen, 3 exs., 7-8. x. 1981, S. Azuma (RU). VIETNAM : Dalat, 1,500 m, 1 ex., 29. iv.-5. v. 1960, L. Quate ; Dalat, 6 km S., 1,400-1,500 m, 5 exs., 9. vi.-7. vii. 1961, N. R. Spencer ; 18 km NW of Dalat, 1,300 m, 1 ex., 4-5. v. 1960, L. W. Quate ; Mt. Lang Bian, 1,500-2,000 m, 3 exs., 19. v.-8. vi. 1961, N. R. Spencer (BISHOP).

Genus **Strobiderus** Jacoby

Strobiderus Jac., 1884, Notes Leyden Mus., 6 : 61 (type : *Strobiderus excavatus* Jacoby ; Sumatra).-Maulik, 1936, Fauna India, Galeruc. : 283.—Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B : 397.

KEY TO SPECIES OF *Strobiderus*

- 1 Elytron covered by depressed and erect hairs ; yellowish to reddish brown with pygidium pitchy black, in some specimen head dark brown to pitchy black ; length 4.0-4.8 mm *nigriceps*
 Elytron covered by erect hairs only, entirely yellowish brown ; length 4.1-5.8 mm *fulvus*

Strobiderus fulvus Kimoto Fig. 61a

Strobiderus fulvus Kimoto, 1977, Ent. Basiliensia, 2 : 379 (Bhutan ; BASEL).

Distribution : Bhutan, Laos.

Material examined. LAOS : Vientiane Prov., Ban Van Eue, 20 km E. of Phou-kow-kuei, 2 exs., 1-15. v. 1965, J. A. Rondon ; Borikhane Prov., Pakkading, 1 ex., 23. iv. 1965, J. L. Gressitt ; Sayaboury Prov., Sayaboury, 2 exs., 15. iv. 1965, J. L. Gressitt (BISHOP).

Strobiderus nigriceps Laboissière

Strobiderus nigriceps Lab., 1936, Ann. Soc. Ent. France, 105 : 258 (Tonkin ; HAMBURG).

Strobiderus tonkinensis Lab., 1936, Ann. Soc. Ent. France, 105 : 259 (Tonkin ; HAMBURG). New synonym.

Distribution : Thailand, Laos, Vietnam.

According to the study on the types, *Strobiderus tonkinensis* is only a infraspecific variation in having the head yellowish to reddish brown.

Material examined. THAILAND : Trang Prov., Waterfall to Kaochang, 150-300 m, 2 exs., 3. i. 1964, 1 ex., 9-11. i. 1964, G. A. Samuelson ; 50 km West of Tak, 900 m, 1 ex., 7-8. iv. 1966, J. Sedlacek (BISHOP) ; Chiangmai Prov., Doi Suthep, 1,000 m, 1 ex., 18. vi. 1965, Y. Miyatake (KU) ; Khon Kaen, 1 ex., 4. viii. 1980, 1 ex., 8. x. 1981, S. Azuma (RU). LAOS : Vientiane Prov., Vientiane, 2 exs., 31. v.-3. vi. 1960, S. Quate & L. Quate ; Vientiane Prov., Ban Van Eue, 1 ex., 15. ii. 1966, 1 ex., 15. ii. 1967, 1 ex., 30. ix. 1967, 1 ex., 15. x. 1967, Native collr ; Wapikhamthong Prov., Wapi, 1 ex., 15. x. 1967, Native collr (BISHOP). VIETNAM : M'Drak, E. of Banme Thuot, 4-600 m, 1 ex., 8-19. xii. 1960, C. M. Yoshimoto ; Ap Hung-Lam, 21 km NW of Dilinh, 1,100 m, 3 exs., 29. ix.-5. x. 1960, C. M. Yoshimoto ; Dalat, 6 km S., 1,400-1,500 m, 2 exs., 9. vi.-7. vii. 1961, N. R. Spencer (BISHOP).

Genus *Trichobalya* Weise

Trichidea Baly, 1890, Ent. Monthly Mag., 26 : 18 (nec Haan, 1838) (type: *Ttichidea bowringii* Baly ; Hongkong ; monobasic).

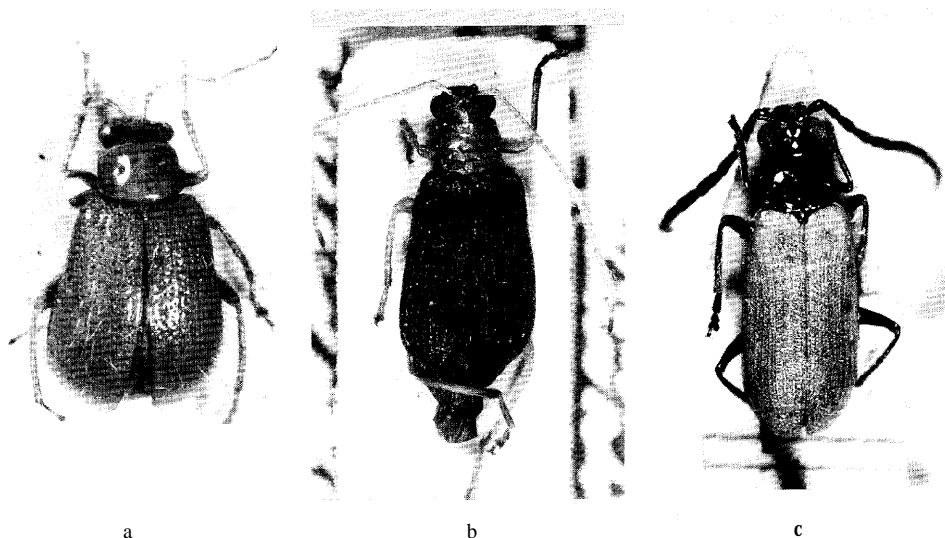


Fig. 61. a, *Strobiderus fulvus* Kimoto ; b, *Trichobalya bowringii* (Baly) ; c, *Theopea bicolor* n. sp.

Ttichobalya Weise, 1924, Col. Cat., 78: 152 (new name for *Trichidea* Baly, 1890).—Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B: 673.

KEY TO SPECIES OF *Trichobalya*

- 1 Head pitchy black ; pronotum nearly 1 1/2 times as wide as long ; generally yellowish to reddish brown ; elytron bluish to violaceous black ; length 6.5-7.3 mm *melanocephala*
Head reddish brown ; pronotum nearly 1 1/4 times as wide as long ; generally yellowish to reddish brown ; elytron violaceous to bluish black ; length 5.0-8.0 mm *bowringii*

Trichobalya bowringii (Baly) Fig. 61b

Trichidea bowringii Baly, 1890, Ent. Monthly Mag., 26: 13 (Hong Kong; BM).

Trichobalya bowringii : Weise, 1924, Col. Cat. Junk, 78 : 152 (Hong Kong).—Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B: 673 (China, Vietnam).

Ttichobalya tonkinensis Laboissière, 1936, Ann. Soc. Ent. France, 105 : 260, fig. 58 (Tonkin: Chonganh, Hoa-binh, Yen-bei ; Yunnan ; HAMBURG).—Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B: 673 (= *bowringii*).

Distribution : Thailand, Laos, Vietnam, China.

Material examined. THAILAND : Khon Kaen, 1 ex., 20. xii. 1979, S. Azuma (RU). LAOS : Vientiane Prov., Ban Van Eue, 1 ex., 12. iv. 1965, J. L. Gressitt ; Vientiane Prov., Phoukou Khouei, 2 exs., 31. v. 1966, Native collr ; Sedone Prov., 5 km E. of Pakse, 1 ex., 13. v. 1965, P. D. Ashlock (BISHOP). VIETNAM : 20 km N. of Pleiku, 550-650 m, 1 ex., 9. v. 1960, 1 ex., 13. v. 1960, L. W. Quate (BISHOP).

Trichobalya melanocephala (Jacoby), **new combination**

Cynorta melanocephala Jac., 1889, Ann. Mus. Civ. Genova, 27 : 220 (Burma ; GENOVA).—Maulik, 1936, Fauna India, Galeruc. : 514 (Burma).

Trichidea mouhoti Baly, 1890, Ent. Monthly Mag., ser. 2, 1: 14 (Siam, Laos ; BM). New **synonym**.

Trichobalya gularis Laboissière, 1936, Ann. Soc. Ent. France, 105 : 261 (Tonkin ; HAMBURG).—Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B: 674 (Vietnam). New **synonym**.

Distribution : Burma, Thailand, Laos, Vietnam.

Material examined. THAILAND : Pakhong, 100 m, NE of Bangkok, 1 ex., 3. xii. 1957, J. L. Gressitt ; 50 km West of Tak, 900 m, 2 exs., 7-8. iv. 1966, J. Sedlacek ; Kao Yai, 1 ex., 30. viii. 1963, Native collr (BISHOP) ; Fang, 1 ex., 13. vi. 1965, K. Morimoto ; Khao Yai Nat. Park, 1 ex., 6. vi. 1965, Y. Miyatake (KU) ; Phet buri, 5 exs., 13. i. 1963 (BANGKHEN). LAOS : Vientiane Prov., Ban Van Eue, 1 ex., 30. xi. 1965, Native collr ; Sayaboury Prov., Sayaboury, 1 ex., 15. iv. 1965, J. L. Gressitt, 1 ex., 6. xii. 1965, 1 ex., 14. xii. 1965, Native collr (BISHOP).

Genus *Theopea* Baly

Theopea Baly, 1864, Trans. Ent. Soc. London, ser. 3, 2 : 237 (type : *Crioceris impressa* Fabricius ; Sumatra).—Chapuis, 1875, Gen. Col., 11 : 242.—Maulik, 1936, Fauna India, Galeruc. : 285.

—Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B: 675.

Ozomena Harold, 1876, Col. Hefte, 15: 132.

KEY TO SPECIES OF *Theopea*

- 1 Pronotum smooth 2
 Pronotum shagreened 4
- 2(1) Elytron reddish brown 3
 Elytron violaceous to bluish black ; head, thorax, abdomen and legs blackish;
 antenna blackish with ninth and tenth segments yellowish white ; length 6 mm *elegantula*
- 3(2) Pronotum black ; generally black ; elytron reddish brown ; antenna and legs pitchy
 brown ; length 4.8-5.7 mm *bicolor*
 Pronotum reddish brown ; ventral surfaces pitchy black ; head and elytron reddish
 brown ; antenna and legs pitchy brown ; length 7.2 mm *mouhoti*
- 4(1) Elytral costa distinct at apex ; violaceous to greenish blue, antenna pitchy black, legs
 yellowish brown ; length 5.8-6.2 mm *sauteri*
 Elytral costa indistinct at apex ; bluish black, antenna pitchy black, legs almost
 entirely yellowish brown ; length 5.3-5.7 mm *similis*

***Theopea bicolor* n. sp.** Fig. 61c

Generally black ; elytron reddish brown ; antenna and legs generally pitchy brown.

Head with vertex somewhat wrinkled, sparsely impressed by minute punctures, interocular space distinctly wider than transverse diameter of single oculus, and interocular transverse impression distinct, frontal tubercle subtriangular, contiguous, distinctly raised, surface smooth, shining. Antenna slender, slightly longer than body length ; first segment long, second shortest, nearly 1/4 as long as first, third 3 1/3 times as long as second, fourth slightly longer than third, fifth subequal to fourth in length and shape, sixth slightly shorter than fifth, sixth to tenth subequal to each other in length and shape, eleventh slightly longer than tenth and its apex pointed. Pronotum transverse, 1 1/4 times as broad as long, anterior margin nearly straight, lateral margin slightly rounded, widest slightly before middle, slightly narrowed anteriorly and posteriorly, basal margin distinctly rounded posteriorly, dorsal surface convex, smooth, shining, with a pair of lateral depressions, sparsely impressed by minute punctures. Scutellum subtriangular, smooth, shining, sparsely impressed by minute punctures. Elytron with lateral margin subparallel-sided, surface closely impressed by strong punctures arranged in semiregular rows, and their interstices smooth, shining, longitudinally costate.

Length : 4.8-5.7 mm.

Holotype (BISHOP) : VIETNAM : 20 km N. of Pleiku, 650 m, 9. v. 1960, L. W. Quate. Paratopotypes: 2 exs., same data as the holotype (BISHOP, KIMOTO). Paratypes: LAOS: Umgeb. Vientiane, 5 exs., iii-vi. 1963 ; Umgeb. Vanky, 8 exs., 1963 ; Umgeb. Paklay, 5 exs., 1963 (MUN-CHEN).

This new species resembles *Theopea mouhoti* Baly, but differs in having pronotum smooth and blackish.

***Theopea elegantula* Baly**

Theopea elegantula Baly, 1864, Trans. Ent. Soc. London, ser. 3, 2 : 238 (Sarawak ; BM).

Theopea nigricollis Jacoby, 1892, Entomolog., 25, Suppl. : 87 (Borneo, Perak, Burma ; BM).

-Maulik, 1936, Fauna India, Galeruc.: 286 (Burma, Perak). New **synonym**.

Distribution : Burma, Laos, Borneo.

Material examined. LAOS : Vientiane Prov., Vientiane, 3 exs., 31. v.-3. vi. 1960, light trap, S.

Quate & L. Quate (BISHOP).

Theopea mouhoti Baly Fig. 62b

Theopea mouhoti Baly, 1864, Trans. Ent. Soc. London, ser. 3, 2 : 238 (Siam ; BM)

Distribution : Laos, Vietnam.

Material examined. LAOS : Vientiane Prov., Ban Van Eue, 1 ex., 15. v. 1966, Native collr (BISHOP) ; Umgeb. Vientiane, 2 exs., iii-vi. 1963 (MUNCHEN).

Theopea sauteri Chûjô

Theopea sauteri Chûjô, 1935, Arb. Morph. Tax. Ent. Berlin-Dahlem, 2 : 169 (with var. *minuta* Chûjô ; Formosa) ; 1962, Phil. J. Sci., 91(1-2) : 158 (Formosa).

Theopea coerulea Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B : 679 (China, Tonkin : Hoa-binh ; BISHOP). New **synonym**.

Distribution : Laos, Vietnam, China, Taiwan.

Material examined. LAOS : Vientiane Prov., Ban Van Eue, 1 ex., 12. iv. 1965, 3 exs., 13. iv. 1965, 1 ex., 15. iv. 1965, J. L. Gressitt, 2 exs., 1-15. v. 1965, J. A. Rondon, 2 exs., 15-31. v. 1965, 1 ex., 15. v. 1966, 1 ex., 31. v. 1966, Native collr ; Vientiane Prov., Phou-kow-kuei, 1 ex., 16. iv. 1965, J. L. Gressitt ; Sayaboury Prov., Sayaboury, 3 exs., 15-16. iv. 1965, J. L. Gressitt ; Sayaboury Prov., Sayaboury, 3 exs., 15-16. iv. 1965, J. L. Gressitt (BISHOP) ; Umgeb. Vientiane, 3 exs., iii-vi. 1963 ; Umgeb. Vanky, 3 exs., 1963 ; Umgeb. Paklay, 3 exs. (MUNCHEN). VIETNAM : Dalat, 6 km S., 1,400-1,500 m, 21 exs., 9. vi.-7. vii. 1961, N. R. Spencer ; 18 km NW of Dalat, 1,300 m, 1 ex., 4-5. v. 1960, L. W. Quate ; Fyan, 900-1,000 m, 5 exs., 11. vii.-9. viii. 1961, N. R. Spencer ; Ban Me Thuot, 500 m, 1 ex., 16-18. v. 1960, S. Quate ; 10 km E. of Ban Me Thuot, 570 m, 1 ex., 18. v. 1960, R. E. Leech ; 7 km SE of Dilinh (Djiring), 990 m, 1 ex., 2. v. 1960, R. E. Leech (BISHOP).

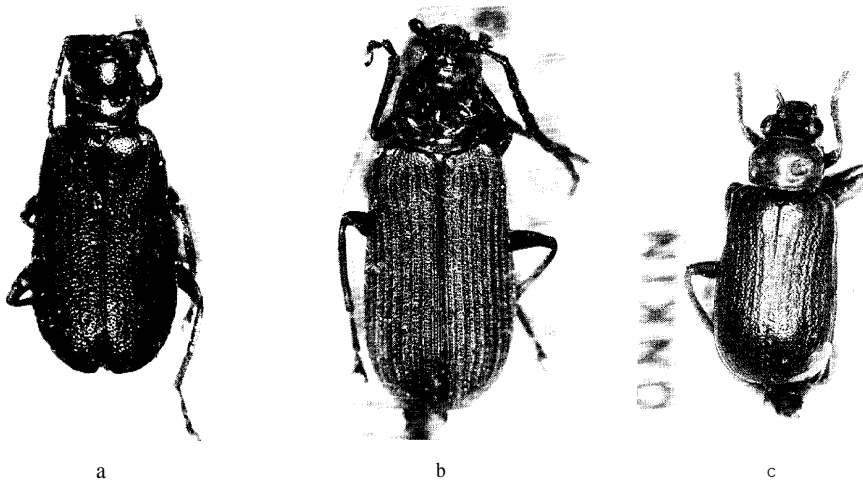


Fig. 62. a, *Theopea similis* n. sp. ; b, *T. mouhoti* (Baly) ; c, *Platyxantha variceps* (Laboissière).

***Theopea similis* n. sp.** Fig. 62a

Generally bluish black, antenna pitchy black, legs almost entirely yellowish brown.

Head with vertex finely granulate, sparsely impressed by distinct punctures, interocular space distinctly wider than transverse diameter of single oculus, and interocular transverse impression distinct, frontal tubercle subtriangular, contiguous, distinctly raised, surface smooth, shining. Antenna slender, slightly longer than body length; first segment long, second shortest, nearly 1/5 as long as first, third 5 2/3 times as long as second, fourth 1 1/3 times as long as third, fourth to ninth subequal to each other in length and shape, tenth slightly shorter than ninth, eleventh slightly longer than tenth and its apex pointed. Pronotum transverse, slightly wider than long, anterior margin slightly rounded anteriorly, lateral margin slightly rounded, widest slightly before middle, slightly narrowed anteriorly and more strongly so posteriorly, basal margin distinctly rounded posteriorly, dorsal surface convex, finely granulate, with a pair of deep lateral depressions, rather closely impressed by large punctures. Scutellum subtriangular, smooth, shining, sparsely covered by fine setae. Elytron with lateral margin subparallel-sided, surface closely impressed by strong punctures which are partly arranged in semiregular geminate rows, and their interstices finely granulate and longitudinally costate especially on lateral area.

Length : 5.3-5.7 mm.

Holotype (BISHOP) : LAOS : Vientiane Prov., Vientiane, 31. v.-3. vi. 1960, light trap, S. Quate & L. Quate. Paratopotype: 1 ex., same data as the holotype (BISHOP). Paratypes: THAILAND: Trang Prov, Khaophappa, Kaochong, 200-400 m, 1 ex., 11. i. 1964, G.A. Samuelson (BISHOP). LAOS : Borikhane Prov., Pakkading, 2 exs., 10. v. 1965, Native collr (BISHOP, KIMOTO).

This new species very closely resembles *Theopea sauteri* Chûjô, but differs in having elytron with the longitudinal costae weaker.

Genus *Paraplotes* Laboissière

Paraplotes Lab., 1933, Ann. Soc. Ent. France, 102 : 51 (type : ***Paraplotes mgosa*** Laboissière ; Tonkin).-Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B : 681.

KEY TO SPECIES OF *Paraplotes*

- 1 Abdomen brownish ; generally yellowish brown ; elytron blackish ; length 5.0 mm *rugosa*
 Abdomen, metathorax, vertex and scutellum blackish; elytron violaceous brown with
 lateral and apical portions bluish black ; length 5.0 mm *frontalis*

***Paraplotes frontalis* Laboissière**

Paraplotes frontalis Lab., 1933, Ann. Soc. Ent. France, 102 : 53 (Tonkin ; HAMBURG).

Distribution : Vietnam.

No additional material was examined beside the type series.

***Paraplotes rugosa* Laboissière**

Paraplotes mgosa Lab., 1933, Ann. Soc. Ent. France, 102 : 52 (Tonkin).-Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B : 684 (Vietnam).

Distribution : Vietnam.

I could not trace the type location of this species.

Genus **Platyxantha** Baly

Platyxantha Baly, 1864, Trans. Ent. Soc. London, ser. 3, 2 : 233 (type : *Platyxantha apicalis* Baly ; Sumatra).-Chapuis, 1875, Gen. Col., 11 : 244.—Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B : 686.

Paraenidea Laboissière, 1933, Ann. Soc. Ent. France, 102 : 66 (type : **Paraenidea azurea** Laboissière ; Yunnan). New **synonym**.

Platyxanthoides Laboissière, 1933, **ibid.** : 71 (type : *Platyxanthoides variceps* Laboissière ; Tonkin). New **synonym**.

KEY TO SPECIES OF *Platyxantha*

- 1 Ventral surfaces in part blackish2
 Ventral surfaces entirely yellowish brown ; generally yellowish brown, head largely blackish ; length 3.8 mm **tonkinensis**
- 2(1) In male, third antennal segment broadly triangular or globose3
 In male, third antennal segment much longer than broad, fairly slender; generally reddish ochraceous ; vertex, metathorax and abdomen largely bluish black ; length 5.5—8.5 mm **variceps**
- 3(2) In male, third antennal segment broadly triangular or globose and second very small, eighth arched, fairly slender ; generally reddish ochraceous, metathorax and abdomen largely bluish black ; elytron purplish red to green **or** blue ; in some specimen elytron reddish ochraceous with basal margin bluish ; length 6.0-9.0 mm **indica**
 In male, third antennal segment broadly triangular, oblique apically, hairy ; eighth and ninth arched ; tenth and eleventh greatly flattened and broadened ; generally yellowish brown ; elytron purplish to greenish blue ; vertex, metathorax and abdomen bluish black ; length 6.8 mm **occipitalis**

Platyxantha indica (Jacoby) Fig. 3a

Dorydea indica Jac., 1889, Ann. Mus. Civ. Genova, 27 : 231 (Burma ; GENOVA).

Platyxantha indica : Maulik, 1936, Fauna India, Galeruc. : 589 (Burma).

Paraenidea azurea Laboissière, 1933, Ann. Soc. Ent. France, 102 : 67 (Hoa-Binh, Luang-Prabang ; HAMBURG).-Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B : 686 (Tonkin : Hoa-binh). New **synonym**.

Paraenidea azurea var. **hoabinhia** Laboissière, 1933, Ann. Soc. Ent. France, 102 : 69 (Hoa-Binh, environs de Tuyen-Quan ; Tien-Yen ; Siam ; Lakhon ; PARIS).

Distribution : Thailand, Laos, Vietnam.

Material examined. THAILAND : Chiangmai Prov., Mae Sa, 1 ex., 16. vi. 1965, P. D. Ashlock ; 50 km West of Tak, 900 m, 2 exs., 7-8. iv. 1966, M. Sedlacek ; Khao Yai, 2 exs., 10. iv. 1963, Native collr ; Bang Khen, 1 ex., 26. ix. 1963, Native collr (BISHOP) ; Fang, 1 ex., 14. vi. 1965, K. Morimoto ; Khao Yai Nat. Park, 1 ex., 6. vi. 1965, K. Morimoto (KU). LAOS : Vientiane Prov., Vientiane, 1 ex., 21. iv. 1965, J. A. Rondon ; Vientiane Prov., Ban Van Eue, 2 exs., 13-14. iv. 1965, J. L. Gressitt, 2 exs., 1-15. v. 1965, J. A. Rondon, 5 exs., 15-31. vi. 1965, Native collr ; Sayaboury Prov., Sayaboury, 4 exs., 15. iv. 1965, J. L. Gressitt, 1 ex., 30. v. 1965, Native collr ; Muong Sing, NW of Luang Prabang, 650 m,

4 exs., 6-10. vi. 1960, L. W. Quate ; Khammouane Prov., Phon Tiou, 1 ex., 10. vi. 1965, N. Wilson, 1 ex., 28. iv. 1965, 1 ex., 30. iv. 1965, 8 exs., 17. v. 1965, 10 exs., 28. v. 1965, 5 exs., 28. vi. 1965, 1 ex., 6. vii. 1965, Native collr ; Borikhane Prov., Pakkading, 9 exs., 23. iv. 1965, J. L. Gressitt, 1 ex., 15. vi. 1966, J. A. Rondon, 1 ex., 22. iii. 1965, 1 ex., 10. v. 1965, 3 exs., 15. vi. 1965, Native collr ; Borikhane Prov., Namkading, nr. Pakkading, 100 m, 5 exs., 21. iv. 1965, 4 exs., 22. iv. 1965, J. L. Gressitt ; Borikhane Prov., Uekinak, nr. Pakkading, 100 m, 1 ex., 22. iv. 1965, J. L. Gressitt (BISHOP) ; Umgeb. Vientiane, 15 exs., iii-vi. 1963 ; Umgeb. Vanky, 19 exs., 1963 ; Umgeb. Paklay, 5 exs., 1963 (MUNCHEN). VIETNAM : Fyan, 1,200 m, 11. vii.-9. viii. 1961, N. R. Spencer (BISHOP).

***Platyxantha occipitalis* (Laboissière), new combination**

Paraenidea occipitalis Lab., 1933, Ann. Soc. Ent. France, 102 : 70 (Tonkin : Hoa-Binh ; BRUXELLES).—Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B : 686 (Tonkin : Hoa-binh).

Distribution : Vietnam.

No additional material was examined beside the type series.

***Platyxantha tonkinensis* Laboissière**

Platyxantha tonkinensis Lab., 1936, Ann. Soc. Ent. France, 105 : 239 (Tonkin ; HAMBURG).

Distribution : Vietnam.

No additional material was examined beside the type series.

***Platyxantha variceps* (Laboissière), new combination** Fig. 62c

Platyxanthoides varipes Lab., 1933, Ann. Soc. Ent. France, 102 : 71 (Tonkin : Hoa-binh ; BRUXELLES).

Paraenidea variceps : Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B : 686 (Tonkin : Hoa-binh).

Distribution : Vietnam.

No additional material was examined beside the type series.

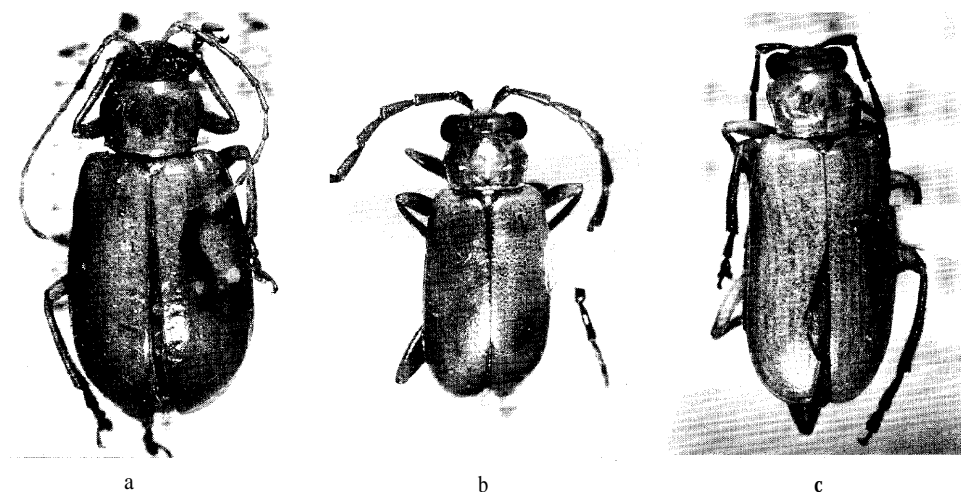


Fig. 63. a, *Laosixantha fulva* n. sp. ; b, *Hyphaenia frontalis* n. sp. ; c, *H. nigricornis* n. sp.

Genus **Palpoxena** Baly

Palpoxena Baly, 1861, J. Ent., 1 : 203 (type : *Palpoxena laeta* Baly ; Borneo).—Chapuis, 1875, Gen. Col., 11 : 244, 246.—Maulik, 1936, Fauna India, Galeruc.: 568.—Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B : 687.

Aenidea Baly, 1874, Trans. Ent. Soc. London, 1874 : 179 (by substitution of **Aenidea** for **Palpoxena** Baly, 1861).—Jacoby, 1885, Proc. 2001. Soc. London, 1885 : 749 (type : **Palpoxena Zaeta** Baly).

Neochrolea Jacoby, 1887, Proc. Zool. Soc. London, 1887 : 117, pl. 11, fig. 4 [type : *Neolepta cavifrons* Jacoby = **Palpoxena fascialis** (Baly) ; monobasic ; Ceylon].

KEY TO SPECIES OF *Palpoxena*

- 1 Generally yellowish brown 2
 Generally bluish black ; antenna and legs largely yellowish brown ; length 12.0-13.0 mm *coomani*
- 2(1) Elytron violaceous blue, with apical angle brownish ; in some specimen dorsal surfaces entirely violaceous ; generally yellowish brown ; in male head widely depressed on frons, and palpus widened and deformed ; length 9.5 mm (Baly, 1861 ; Borneo) *laeta*
 Elytron bluish black ; generally yellowish brown ; in male head widely excavated on frons and palpus widened but not deformed ; length 8.0-9.5 mm *coeruleipennis*

Palpoxena coomani (Laboissière)

Aenidea coomani Lab., 1933, Ann. Soc. Ent. France, 102 : 59 (Tonkin ; BRUXELLES).

Palpoxena coomani : Wilcox, 1973, Col. Cat. Junk, Suppl., 78 (3) : 648 (Vietnam).

Distribution : Vietnam.

No additional material was examined beside the type series.

Palpoxena coeruleipennis (Baly) Fig. 3c

Aenidea coeruleipennis Baly, 1888, J. Linn. Soc. Zool., 20 : 159 (Siam ; BM).

Aenidea crassipalpis Jacoby, 1892, Ann. Mus. Civ. Genova, 32 : 986 (Burma : Tenasserim ; GENOVA). New **synonym**.

Aenidea ulysis Laboissière, 1933, Ann. Soc. Ent. France, 102 : 58 (Tonkin ; HAMBURG). New **synonym**.

Palpoxena crassipalpis : Maulik, 1936, Fauna India, Galeruc. : 586 (Burma).

Palpoxena coeruleipennis : Chûjô, 1959, Sci. Rep. Agr. Exped. Cambodia, Hyogo Univ. Agr., (2) : 60 (Cambodia) ; 1964, Nature and Life in SE Asia, Kyoto, 3 : 297 (Thailand).

Palpoxena Zaeta : Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B : 687 (Tonkin : Hoa-binh).

Distribution : Thailand, Cambodia, Laos, Vietnam.

Material examined. THAILAND : Chiangmai Prov., Chiangdao, 450 m, 3 exs., 5-11. iv. 1958, T. C. Maa (BISHOP). CAMBODIA : 20 km E. of Siem Reap, 2 exs., 11. iii. 1968, D. E. Hardy (BISHOP). LAOS: Vientiane Prov., Ban Van Eue, 1 ex., 15. iii. 1966, Native collr ; Khammouane Prov., Phon Tiou, 3 exs., 8. iii. 1966, Native collr ; Sayaboury Prov., Sayaboury, 1 ex., 1-10. iv. 1965, J. A. Rondon, 2 exs., 2. iii. 1966, Native collr ; Pakse, 1 ex., iii. 1965, J. A. Rondon (BISHOP). VIETNAM : 20 km N. of Pleiku, 650 m, 1 ex., 9. v. 1960, L. W. Quate ; 25 km SW of Pleiku, 400 m, 2 exs., 12. v. 1960, L. W. Quate ; Karyu Danar, 200 m, 1 ex., 13-28. ii. 1961, N. R. Spencer (BISHOP).

Genus *Laosixantha* n. gen.

Antennal insertions widely separated by frons ;labrum rounded, truncate apically ; gena nearly half as deep as oculus ; antenna with third segment distinctly longer than second ; prothorax convex side to side, without any trace of depression dorsally, and with anterior, lateral and basal margins entirely marginate ; elytron with punctures irregularly impressed, without distinct subbasal furrow, epipleuron wide at base and gradually narrowed to apex ; prosternal process not elevated between anterior coxae ; anterior coxal cavity closed posteriorly ; middle and posterior tibiae with many short spines apically ; tarsal claws appendiculate and first tarsal segment of posterior leg distinctly shorter than length of second and third combined.

Type species : *Laosixantha fulva* Kimoto.

This new genus resembles *Palpoxena* Baly, but differs in having the first segment of the posterior tarsus distinctly shorter than the following segments combined, pronotum convex side to side, without any trace of depression dorsally and elytron without any trace of transverse depression behind the subbasal area.

***Laosixantha fulva* n. sp. Fig. 63a**

Entirely ochraceous.

Head with vertex smooth, shining, sparsely impressed by minute punctures, interocular space much wider than transverse diameter of single oculus, and interocular transverse impression distinctly raised, surface smooth, shining. Antenna slender, nearly 3/4 as long as body length ; first segment long, robust, somewhat club-shaped, second nearly half as long as first, third almost twice as long as second, fourth slightly longer than third, fourth to tenth subequal to each other in length and shape, eleventh slightly longer than tenth and its apex pointed. Pronotum transverse, 1 2/5 times as broad as long, anterior margin slightly rounded posteriorly, lateral margin distinctly rounded, widest almost at 1/3 from anterior margin, distinctly narrowed anteriorly and posteriorly, basal margin slightly rounded posteriorly, dorsal surface convex side to side, smooth, shining, very sparsely impressed by distinct punctures. Scutellum subtriangular, smooth, shining. Elytron with lateral margin rounded, surface rather closely impressed by distinct punctures.

Length : 7.5-9.5 mm.

Holotype (BISHOP) : LAOS : Borikhane Prov., Pakkading, 15-31. viii. 1965, Native collr. Paratopotypes: 9 exs., same data as the holotype (BISHOP). Paratypes : LAOS : Borikhane Prov., Pakkading, 5 exs., 13. vii. 1965, malaise trap, J. L. Gressitt & K. A. J. Wise, 13 exs., 15. ix. 1965, light trap, J. L. Gressitt, 2 exs., 3. viii. 1965, 2 exs., 31. viii. 1965, 3 exs., 9. ix. 1965, Native collr ; Sayaboury Prov., Sayaboury, 1 ex., 15. iv. 1965, J. L. Gressitt ; Vientiane Prov., Vientiane, 9 exs., 15. v. 1967, Native collr ; Vientiane Prov., Gi Sion Vill., de Tha Ngone, 1 ex., 10-24. x. 1965, Native collr ; Khammouane Prov., Phon Tiou, 1 ex., 17. v. 1965, Native collr ; Wapikhamthong Prov., Khong Sedone, 1 ex., 30. v. 1965, Native collr (BISHOP, KIMOTO) ; Umgeb. Vientiane, 21 exs., iii-vi. 1963 (MUNCHEN).

This new species somewhat resembles *Calomicrus persimilis* Kimoto, but differs in having the anterior coxal cavity closed posteriorly.

Genus *Hyphaenia* Baly

Hyphaenia Baly, 1865, Ann. Mag. Nat. Hist., ser. 3, 16: 410 (type: *Luperus pilicornis* Motschulsky; Burma).-Chapuis, 1875, Gen. Col., 11 :242.—Maulik, 1936, Fauna India, Galeruc. : 486.



Fig. 64. a, *Hyphaenia antennalis* n. sp. ; b, *H. minor* n. sp. ; c, *H. elongata* n. sp.

-Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B: 688.

Trichocerastes Motschulsky, 1866, Bull. Soc. Nat. Moscou, 39, 1 (2) : 413 (type : *Luperus pilicornis* Motschulsky ; Burma).

KEY TO SPECIES OF *Hyphaenia*

- 1 Dorsal surfaces generally or at least partly yellowish to dark reddish brown2
- Dorsal surfaces entirely greenish to bluish black 5
- 2(1) Pronotum transverse, nearly 1 1/2 times as wide as long 3
- Pronotum subquadrate, slightly longer than wide ; elytron yellowish brown with basal, lateral and apical margins bluish black in various degrees, in some specimen elytron entirely yellowish brown ; generally yellowish brown, antenna pitchy brown to black ; legs with tarsi and apex of tibiae blackish ; length 6.8-7.8 mm*maculata*
- 3(2) Antenna largely brownish4
- Antenna largely blackish ; generally yellowish brown, antenna, tibiae and tarsi pitchy black ; in some specimen head pitchy black with vertex brownish, and also in some specimen elytron largely pitchy brown ; in male head with a large excavation on middle of frons ; length 6.8-7.5 mm*nigricornis*
- 4(3) In male head without any distinct cavity on frons and antennal segments slightly depressed ; generally yellowish brown ; in some specimen pronotum with two pair of ill-defined markings dark brown, and in dark colored specimen tibiae and tarsi mostly pitchy black ; length 5.0-7.0 mm*a.*.....*.*.*.....*.*.....fulva*
- In male head with a transverse cavity on frons and with a distinct projection on posterior margin of clypeus medianly ; generally yellowish brown, antenna dark brown, legs in part infusate ; in **some** specimen metathorax and abdomen pitchy black ; length 4.5-5.7 mm *frontalis*
- 5(1) Abdomen yellowish brown ; in male third to eleventh antennal segments thickly covered by long hairs*.....*..... 6

- Abdomen entirely bluish 7
- 6(5) Pronotum nearly 1 1/2 times as wide as long ; interocular space distinctly wider than transverse diameter of oculus; generally violaceous to bluish black 7
 Pronotum slightly wider than long ; interocular space distinctly narrower than transverse diameter of single oculus ; generally bluish black ; length 4.2-4.8 mm *abdominalis*
- 7(6) Dorsal surfaces entirely violaceous ; length 6.0 mm (Laboissière, 1936 ; Yunnan) *aenea*
 Dorsal surfaces entirely bluish ; length 5.0-6.0 mm *cyanescentis*
- 8(5) Head entirely bluish to greenish, legs generally bluish 9
 Head greenish blue with anterior half yellowish, legs generally brownish ; generally greenish to bluish black, antenna pitchy black, ventral surfaces of pro- and meso-thorax brownish ; length 3.3-3.8 mm *minor*
- 9(8) Pronotum 1 1/2 times as wide as long; in male antenna with third to fifth segments thickly covered by long hairs and seventh segment distinctly curved ; length 3.6-3.9 mm *antennalis*
 Pronotum 1 1/4 times as wide as long; antenna slender, not modified in male ; generally bluish black, antenna pitchy black ; length 3.9-4.5 mm *elongata*

***Hyphaenia abdominalis* n.sp.** Fig. 65b

Generally bluish black, abdomen yellowish brown,

Head with vertex smooth, shining, sparsely impressed by minute punctures, interocular space distinctly narrower than transverse diameter of single oculus, and interocular transverse impression obsolete, frontal tubercle subquadrate, contiguous, slightly raised, surface smooth, shining. Antenna slender, nearly as long as body length ; first segment long, second shortest, nearly 1/4 as long as first, third four times as long as second, third to eighth subequal to each other in length, ninth slightly shorter than eighth, tenth slightly shorter than ninth, eleventh subequal to ninth in length and its apex pointed. Pronotum transverse, slightly wider than long, anterior margin distinctly rounded anteriorly, lateral margin slightly rounded, widest slightly before middle, slightly narrowed anteriorly and posteriorly, basal margin slightly rounded posteriorly, dorsal surface convex, smooth, shining, with a deep transverse subbasal depression, punctures finely and sparsely punctate. Scutellum subtriangular, smooth, shining, sparsely impressed by minute punctures. Elytron with lateral margin subparallel-sided, apex rounded, surface distinctly but not closely punctate and their interstices finely granulate.

Length : 4.2-4.8 mm.

Holotype (BISHOP) : THAILAND : Trang Prov., Khaophappa, Khaochang, 200-400 m, 11. i. 1964, G. A. Samuelson. Paratopotype : 1 ex., same data as the holotype (KIMOTO).

This new species resembles *Hyphaenia cyanescentis* Laboissière, but differs in having pronotum slightly wider than long, and the interocular space distinctly narrower than the transverse diameter of single oculus.

***Hyphaenia antennalis* n. sp.** Fig. 64a

Entirely bluish black.

Head with vertex smooth, shining, sparsely impressed by minute punctures, interocular space as long as transverse diameter of single oculus, and interocular transverse impression distinct, frontal tubercle transverse, subquadrate, contiguous, distinctly raised, surface smooth, shining. Antenna slender in basal segments and robust in preapical segments, nearly as long as body length ; first long, second shortest, nearly 1/4 as long as first, third four times as long as second, fourth 1 1/4 times

as long as third, fifth $\frac{3}{4}$ as long as fourth, and fifth to eleventh segments much robuster than basal segments, sixth slightly shorter than fifth, seventh slightly shorter than sixth, eighth subequal to seventh in length and slightly curved, ninth slightly shorter than eighth, tenth subequal to ninth in length and shape, eleventh subequal to eighth in length and its apex pointed. Pronotum transverse, $1\frac{1}{2}$ times as broad as long, anterior margin nearly straight, lateral margin slightly rounded, widest slightly before middle, slightly narrowed anteriorly and more strongly so posteriorly, basal margin distinctly rounded posteriorly, dorsal surface convex, smooth, shining, with a pair of deep transverse subbasal depressions which are united at middle, punctures finely and sparsely impressed. Scutellum subtriangular, smooth, shining, sparsely impressed by minute punctures. Elytron with lateral margin subparallel-sided, rounded at apex, surface closely impressed by distinct punctures and their interstices smooth, shining.

Male : Antenna with third to fifth segments thickly covered by long hairs. **Female** : Unknown. Length : 3.6-3.9 mm.

Holotype (RU) : THAILAND : Khon Kaen, 24. vii. 1968, S. Azuma. Paratopotypes : '2 exs., same data as the holotype (RU, KIMOTO). Paratypes : THAILAND : Chiangmai Prov., Doi Suthep, 1 ex., 1-15. iv. 1958, T. C. Maa (BISHOP). LAOS : Vientiane Prov., Ban Van Eue, 1 ex., 15-31. v. 1965, 1 ex., 15. v. 1966, Native collr (BISHOP).

This new species resembles *Hyphaenia cyanescens* Laboissière, but differs in having the ventral surfaces entirely bluish black.

***Hyphaenia cyanescens* Laboissière**

Hyphaenia cyanescens Lab., 1936, Ann. Soc. Ent. France, 105 : 242 (Tonkin ; HAMBURG).
-Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B : 688 (Tonkin; Hoa-binh).

Distribution : Vietnam.

No additional material was examined.

***Hyphaenia elongata* n. sp. Fig. 64c**

Generally bluish black, antenna pitchy black.

Head with vertex finely granulate, impunctate, interocular space distinctly wider than transverse diameter of single oculus, and interocular transverse impression distinct, frontal tubercle subtriangular, contiguous, distinctly raised, surface finely granulate. Antenna slender, nearly as long as body length ; first segment long, second shortest, nearly $\frac{1}{4}$ as long as first, third $2\frac{1}{2}$ times as long as second, fourth $1\frac{1}{3}$ times as long as third, fourth to ninth subequal to each other in length and shape, tenth slightly shorter than ninth, eleventh subequal to ninth in length and its apex pointed. Pronotum transverse, $1\frac{1}{4}$ times as broad as long, anterior margin slightly rounded anteriorly, lateral margin slightly rounded, widest at $\frac{1}{3}$ from anterior margin and slightly narrowed anteriorly and more strongly so posteriorly, basal margin distinctly rounded posteriorly, dorsal surface with a pair of deep transverse depressions which are united at middle, and punctures distinctly but not closely impressed, and interstices of punctures finely granulate. Elytron with lateral margin subparallel-sided and apex rounded, surface closely impressed by distinct punctures and their interstices finely granulate.

Length : 3.9-4.5 mm.

Holotype (BISHOP) : VIETNAM : Mt. Lang Bian, 1,500-2,000 m, 19. v.-8. vi. 1961, N. R. Spencer. Paratopotypes : 4 exs., same data as the holotype (BISHOP, KIMOTO). Paratypes : Fyan, 900-1,200 m, 17 exs., 11. vii.-9. viii. 1961, N. R. Spencer; Dalat, 6 km S., 1,400-1,500 m, 1 ex., 9. vi.-7. vii. 1961, N. R. Spencer ; 20 km SW, Dilinh (Djiring), 900 m, 1 ex., 22-28. iv. 1960, S. Quate (BISHOP).

This new species resembles *Hyphaenia antennalis* Kimoto, but differs in having pronotum more elongate and antenna much slender.

Hyphaenia frontalis n. sp. Fig. 63b

Generally yellowish brown, antenna dark brown, legs with tibiae and tarsi pitchy brown, in some specimen metathorax and abdomen pitchy black.

Head with vertex finely granulate, sparsely impressed by distinct punctures, interocular space much wider than transverse diameter of single oculus, frontal tubercle transverse, subquadrate, contiguous, slightly raised, hardly delimited posteriorly by interocular transverse impression, surface finely granulate. Antenna slender, longer than body length; first segment long, second shortest, nearly $1/5$ as long as first, third $5 \frac{2}{3}$ times as long as second, fourth slightly shorter than third, fourth to tenth subequal to each other in length and shape, eleventh $1 \frac{1}{3}$ times as long as tenth and its apex pointed. Pronotum transverse, $1 \frac{2}{5}$ times as broad as long, anterior margin nearly straight, lateral margin strongly rounded, widest slightly before middle, slightly narrowed anteriorly and more strongly so posteriorly, basal margin slightly rounded posteriorly and nearly straight at middle, dorsal surface convex, with a pair of deep lateral depressions, punctures generally finer and sparser, but more stronger and closer on lateral depression. Scutellum subtriangular, finely granulate, sparsely impressed by minute punctures. Elytron with lateral margin subparallel-sided, with apex rounded, surface closely impressed by distinct punctures and their interstices finely granulate.

Male: Head with a transverse cavity on frons and with a distinct projection on posterior margin of clypeus medianly; fifth abdominal segment trilobed. Female: Head without any distinct cavity; fifth abdominal segment entire.

Length: 4.5-5.7 mm.

Holotype (BISHOP): LAOS: Sedone Prov., Paksong, 18. v. 1965, P. D. Ashlock. Paratopotypes: LAOS: Sedone Prov., Paksong, 2 exs., 18. v. 1965, P. D. Ashlock (BISHOP, KIMOTO).

This new species resembles *Hyphaenia fulva* Kimoto, but differs in having the head with a

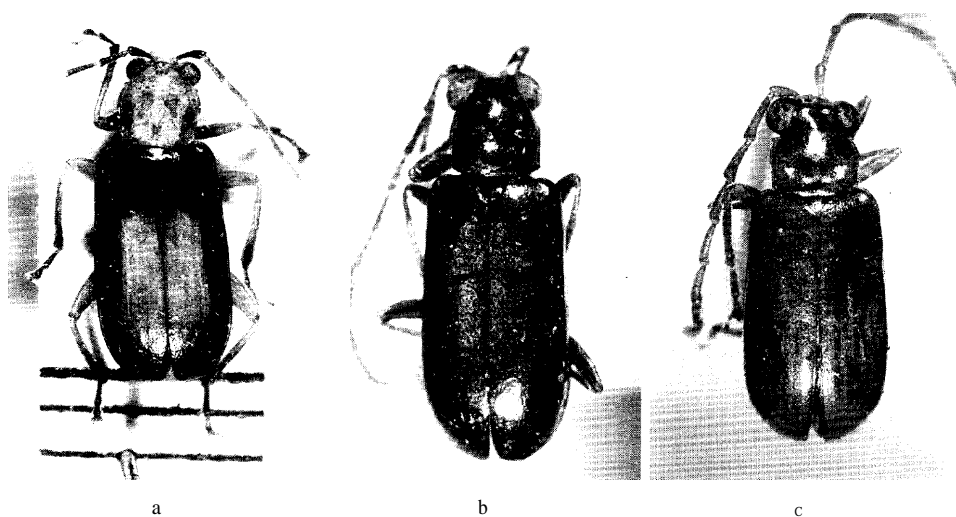


Fig. 65. a, *Hyphaenia maculata* n. sp.; b, *H. abdominalis* n. sp.; c, *H. fulva* n. sp.

transverse cavity on frons and with a distinct projection on the posterior margin of clypeus medianly and antenna much darker.

Hyphaenia fulva n. sp. Fig. 65c

Generally yellowish brown ; in some specimen pronotum with a pair of ill-defined markings dark brown, and in dark colored specimen ventral surfaces with meso- and metathorax and abdomen pitchy black, and legs with tibiae and tarsi mostly pitchy brown.

Head with vertex finely granulate, sparsely impressed by distinct punctures, interocular space much wider than transverse diameter of single oculus, frontal tubercle transverse, subquadrate, contiguous, slightly raised, hardly delimited posteriorly by interocular transverse impression, surface finely granulate. Antenna slender, longer than body length ; first segment long, second shortest, nearly $1/5$ as long as first, third seven times as long as second, fourth slightly shorter than third, fourth to tenth subequal to each other in length and shape, eleventh $1\frac{1}{3}$ times as long as tenth and its apex pointed. Pronotum transverse, $1\frac{2}{5}$ times as broad as long, anterior margin nearly straight, lateral margin strongly rounded, widest slightly before middle, slightly narrowed anteriorly and more strongly so posteriorly, basal margin slightly rounded posteriorly and nearly straight at middle, dorsal surface convex, with a pair of deep lateral depressions, punctures generally finer and sparser, but stronger and closer on lateral depression. Scutellum subtriangular, finely granulate, sparsely impressed by minute punctures. Elytron with lateral margins subparallel-sided, with apex rounded, surface closely impressed by distinct punctures and their interstices finely granulate.

Male : Antenna with eighth and ninth segments slightly curved ; fifth abdominal segment trilobed. **Female** : Fifth abdominal segment entire.

Length : 5.0-7.0 mm.

Holotype (BISHOP) : VIETNAM : Dalat, 1,500 m, 28. iv.-4. v. 1960, L. W. Quate. Paratopotypes : 4 exs., same data as the holotype (BISHOP, KIMOTO). Paratypes : VIETNAM : 18 km NW of Dalat, 1,300 m, 6 exs., 4-5. v. 1960 L. W. Quate (BISHOP).

This new species somewhat resembles *Hyphaenia nigricornis* Kimoto, but differs in having antenna entirely brownish and in the male the head without any large excavation at the middle.

Hyphaenia maculata n. sp. Fig. 65a

Generally yellowish brown ; elytron yellowish brown with basal, lateral and apical margins bluish black in various degrees, in most pale colored specimen entirely yellowish brown; antenna pitchy brown to black ; legs with tarsi and apex of tibiae blackish.

Head with vertex somewhat wrinkled, sparsely impressed by distinct punctures, interocular space much wider than transverse diameter of single oculus, frontal tubercle subtriangular, contiguous, slightly raised, surface finely wrinkled, delimited posteriorly by interocular transverse impression. Antenna slender, nearly as long as body length ; first segment long, second shortest, nearly $1/5$ as long as first, third $4\frac{1}{4}$ times as long as second, fourth $1\frac{1}{3}$ times as long as third, fifth subequal to fourth in length and shape, sixth slightly shorter than fifth, sixth to tenth subequal to each other in length and shape, eleventh subequal to tenth and its apex pointed. Pronotum subquadrate, slightly longer than wide; anterior margin slightly rounded posteriorly, lateral margin slightly rounded, widest almost at $1/3$ from anterior margin, slightly narrowed anteriorly and more strongly so posteriorly, basal margin slightly rounded posteriorly and nearly straight at middle, dorsal surface convex, with a pair of shallow depressions laterally, and punctures distinctly and rather closely impressed and their interstices smooth, shining. Scutellum subtriangular, finely granulate, nearly impunctate. Elytron

with lateral margins subparallel-sided, with apex rounded, surface closely impressed by distinct punctures and their interstices finely granulate, and punctures arranged in semiregular rows at lateral area and their interstices slightly raised as several longitudinal costae.

Length : 6.8-7.8 mm.

Holotype (MUNCHEN) : LAOS : Umgeb. Paklay, 1963. Paratypes : LAOS : Umgeb. Vientiane, 2 exs., iii-vi. 1963 ; Umgeb. Vankay, 3 exs., 1963 ; Umgeb. Paklay, 2 exs., 1963 (MUNCHEN, KIMOTO) ; Ile de Khong, 1 ex., 17. v. 1965, Native collr (BISHOP).

This new species resembles *Hyphaenia nigricornis* Kimoto, but differs in having pronotum slightly longer than the wide and in the male the head without any distinct excavation.

Hyphaenia minor n. sp. Fig. 64b

Generally greenish to bluish black, head yellowish to reddish brown with vertex greenish blue, antenna generally pitchy black ; ventral surfaces with pro- and mesothorax brownish ; legs generally pitchy brown.

Head with vertex somewhat wrinkled, sparsely impressed by distinct punctures, interocular space much wider than transverse diameter of single oculus, frontal tubercle transverse, subquadrate, contiguous, distinctly raised, delimited posteriorly by deep interocular transverse impression, surface smooth, shining. Antenna slender, nearly as long as body length ; first segment long, second shortest, nearly 1/4 as long as first, third three times as long as second, fourth 1 2/3 times as long as third, fifth slightly shorter than fourth, fifth to seventh subequal to each other in length and shape, eighth slightly shorter than seventh, eighth to tenth subequal to each other in length and shape, eleventh subequal to seventh in length but its apex pointed. Pronotum transverse, 1 1/2 times as broad as long, anterior margin nearly straight, lateral margin feebly rounded, widest at slightly behind anterior margin, distinctly narrowed posteriorly, basal margin slightly rounded posteriorly, dorsal surface convex, with a pair of deep lateral depressions, punctures finely and sparsely impressed and their interstices finely granulate. Scutellum subtriangular, finely granulate, nearly impunctate. Elytron with lateral margin subparallel-sided, with apex rounded, surface not closely impressed by distinct punctures and their interstices finely granulate.

Length : 3.3-3.8 mm.

Holotype (BISHOP) : VIETNAM : Dalat, 1,500 m, 1 ex., 29. iv.-4. v. 1960, L. W. Quate. Paratypes : VIETNAM : Fyan, 900-1,200 m, 6 exs., 11. vii.-9. viii. 1961, N. R. Spencer; Dalat, 6 km S., 1,400-1,500 m, 1 ex., 9. vi.-7. vii. 1961, N. R. Spencer ; 15 km NW of Dalat, 1,850 m, 1 ex., 5. v. 1960, L. W. Quate (BISHOP, KIMOTO).

This new species resembles *Hyphaenia cyanescens* Laboissière, but differs in being the body length shorter and having the head greenish blue with the anterior half yellowish brown.

Hyphaenia nigricornis n. sp. Fig. 63c

Generally yellowish brown, antenna entirely pitchy black ; legs yellowish brown with tibiae and tarsi pitchy black ; in dark colored specimen elytron largely pitchy brown, and in some specimen head pitchy black with vertex yellowish brown.

Head with vertex somewhat wrinkled, sparsely impressed by distinct punctures, interocular space much wider than transverse diameter of single oculus, frontal tubercle transverse, subquadrate, contiguous, slightly raised, delimited posteriorly by a shallow transverse impression, surface finely granulate. Antenna slender, longer than body length ; first segment long, second shortest, nearly 1/5 as long as first, third five times as long as second, fourth 1 1/4 times as long as third, fifth slightly

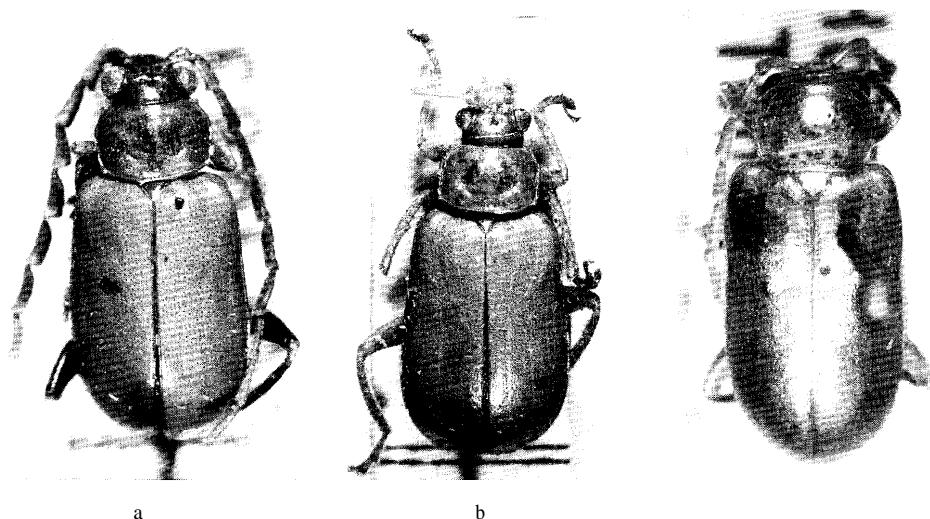


Fig. 66. a, *Acroxena femoralis* n. sp. ; b, *A. fulva* n. sp. ; c, *A. nasuta* Baly.

shorter than fourth, fifth to eighth subequal to each other in length and shape, ninth slightly shorter than eighth, tenth subequal to ninth in length and shape, eleventh subequal to tenth in length but its apex pointed. Pronotum transverse, $1 \frac{2}{5}$ times as broad as long, anterior margin nearly straight, lateral margin distinctly rounded, widest at $\frac{1}{3}$ from anterior margin, slightly narrowed anteriorly and more strongly so posteriorly, basal margin slightly rounded posteriorly and nearly straight at middle, dorsal surface convex, with a pair of deep lateral depressions which are united at middle, punctures sparsely and finely impressed, and interstices of punctures finely granulate. Scutellum subtriangular, finely granulate, sparsely impressed by minute punctures. Elytron with lateral margin subparallel-sided, with apex rounded, surface closely impressed by distinct punctures which are arranged in semiregular geminate rows and their interspaces finely granulate and slightly raised as several longitudinal costae.

Male : Head with a large excavation on middle of frons ; fifth abdominal segment with a pair of short longitudinal notches apically. **Female** : Head without large excavation ; fifth abdominal segment entire.

Length : 6.8-7.5 mm.

Holotype (BISHOP) : LAOS : 100 m, Namkading, nr. Pakkading, 21. iv. 1965, J. L. Gressitt. **Paratypes**: THAILAND: Chiangmai Prov., Fang, 1 ex., 14. vi. 1965, K. Morimoto (KU). LAOS: Savanakheth Prov., Savanakheth, 13 exs., 15. iv. 1967, Native collr ; Borikhane Prov, Pakkading, 1 ex., 22. iv. 1965, 2 exs., 23. iv. 1965, J. L. Gressitt, 1 ex., 15. iv. 1965, 1 ex., 17. v. 1965, Native collr ; 100 m, Namkading, nr. Pakkading, 1 ex., 21. iv. 1965, 1 ex., 22. iv. 1965, J. L. Gressitt ; Vientiane Prov., Vientiane, 3 exs., 15. v. 1967, Native collr ; Vientiane Prov., Ban Van Eue, 1 ex., 1-15. v. 1965, J. A. Rondon, 1 ex., 15-31. v. 1965, Native collr ; Muong Sing, NW of Luang Prabang, 550 m, 1 ex., 6-10. vi. 1960, at light, L. Quate ; Wapikhamthong Prov., Khong Sedone, 1 ex., 30. v. 1965, Native collr ; Ile de Khong, 2 exs., 3. v. 1965, 7. v. 1965, Native collr (BISHOP) ; Umgeb. Paklay, 5 exs., 1963 ; Umgeb. Vanky, 1 ex., 1963 ; Umgeb. Vientiane, 6 exs., iii-vi. 1963 (MUNCHEN). VIETNAM : 60 km SW, Blao (Balao), 2 exs., 22. iv. 1960, L. W. Quate ; Kontum, N. of Pleiku, 550 m, 2 exs., 13. v. 1960, L. W. Quate (BISHOP).

This new species somewhat resembles *Hyphaenia frontalis* Kimoto, but differs in having antenna generally blackish, and elytron with punctures arranged in some semiregular geminate rows and their interstices slightly costate.

Genus *Cassenoides* n. gen.

Antennal insertions widely separated by frons; labrum slightly bilobed apically; gena 1/5 as deep as oculus; antenna with third segment distinctly longer than second; prothorax convex side to side without any distinct depression dorsally, and with lateral and basal margins distinctly marginate; prosternal process distinctly elevated between anterior coxae; anterior coxal cavity closed posteriorly; middle and posterior tibiae with many short spines apically; tarsal claws appendiculate and first tarsal segment of posterior leg subequal to length of second and third segments combined.

Type species: *Cassenoides flavomarginatus* Kimoto.

This new genus somewhat resembles *Cassena* Weise, but differs in having pronotum with the anterior margin immarginate and without a pair of short longitudinal furrows basally.

Cassenoides flavomarginatus n. sp. Fig. 67a

Generally ochraceous, elytron greenish blue with lateral and apical margins entirely ochraceous.

Head with vertex smooth, shining, sparsely impressed by minute punctures, interocular space much wider than transverse diameter of single oculus, and interocular transverse impression distinct, frontal tubercle transverse, subtriangular, contiguous, distinctly raised, surface smooth, impunctate. Antenna slender, nearly 2/3 as long as body length; first segment long, robust, somewhat club-shaped, second shortest, nearly 2/5 as long as first, third twice as long as second, third to ninth subequal to each other in length and shape, tenth slightly shorter than ninth, eleventh 1 1/4 times as long as tenth and its apex pointed. Pronotum transverse, nearly twice as broad as long, anterior margin slightly rounded posteriorly, lateral margin distinctly rounded, widest almost at middle, distinctly narrowed anteriorly and posteriorly, basal margin distinctly rounded posteriorly, dorsal surface convex side to side, smooth, shining, sparsely impressed by minute punctures. Scutellum subtriangular, smooth, shining, impunctate. Elytron with lateral margin rounded, surface strongly and rather closely punctate, and their interstices smooth, shining and narrower than average diameter of punctures.

Length: 5.7-6.3 mm.

Holotype (BISHOP): THAILAND: Chantaburi, 29. vi. 1963, Native collr. Paratypes: THAILAND: Chanthaburi, Prew, 45 m, 1 ex., 24. iv.-1. v. 1956, T. C. Maa; Saraburi, 1 ex., iii. 1963, Native collr; Phou Kae, 1 ex., 17. v. 1963, Native collr (BISHOP); Nakhon Ratchasima, 1 ex., 19. v. 1961; Chanthaburi, 2 exs., 20-31. iv. 1959 (BANGKHEN; KIMOTO).

This new species somewhat resembles *Cassena collaris* (Baly), but differs in having pronotum without short longitudinal furrow basally, and elytron with the lateral and the apical margins ochraceous.

Genus *Acroxena* Baly

Acroxena Baly, 1879, Cist. Ent., 2: 462 (type: *Acroxena nasuta* Baly; Assam).-Maulik, 1936, Fauna India, Galeruc.: 564.—Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B: 687.

KEY TO SPECIES OF *Acroxena*

- 1 At least ventral surfaces or legs in part infusate2
 Entirely yellowish brown ; in male head with frons transversely excavated and with a tuft of hairs on middle of anterior and posterior margins of excavation, and antenna with ventral surfaces of third to fifth segments infusate ; length 7.8-8.3 mm*fulva*
- 2(1) Legs pitchy black with basal 2/3 of femora brownish ; generally yellowish to reddish brown, metathorax and abdomen largely pitchy black ; in male head with large cavity on middle of frons, and antenna with ventral surfaces of third to eighth segments infusate ; length 6.5-7.7 mm *femoralis*
 Legs blackish brown with femora entirely brownish ; generally yellowish brown ; metathorax and abdomen somewhat infusate ; in male head with frons slightly excavated at middle and clypeus enlarged, and antenna with ventral surfaces of third to seventh infusate ; length 9.3-11.0 mm *nasuta*

***Acroxena femoralis* n. sp.** Fig. 66a

Generally yellowish to reddish brown, ventral surfaces with metathorax and abdomen largely pitchy black ; legs generally pitchy black with basal 2/3 of femora and base of tibiae yellowish brown ; in male antenna with exterior margins of third to eighth segments infusate.

Head with vertex finely granulate, nearly impunctate except several large punctures along interocular transverse impression which is feebly impressed, interocular space much wider than transverse diameter of single oculus, frontal tubercle transverse, subquadrate, contiguous, distinctly raised, surface finely granulate. Antenna slender, nearly as long as body length ; first segment robust, especially in male, second shortest, nearly 1/6 as long as first, third eight times as long as second in male and six times as long as second in female, fourth slightly longer than third, fourth to tenth subequal to each other in length and shape, eleventh 1 1/4 times as long as tenth and its apex pointed.

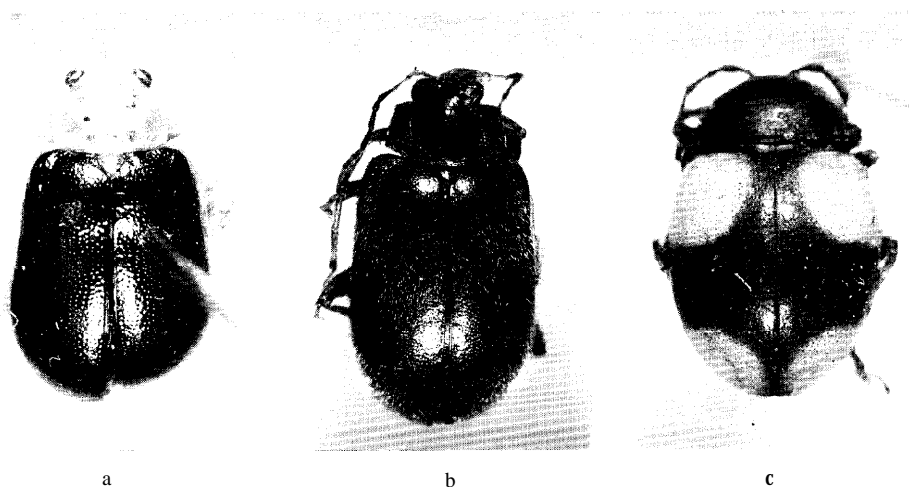


Fig. 67. a, *Cassenoides flavomarginatus* n. sp. ; b, *Pseudeustetha hirsuta* (Jacoby) ; c, *Emathea aptera* n. sp.

Pronotum transverse $1 \frac{2}{3}$ times as broad as long, anterior margin slightly rounded posteriorly, lateral margin distinctly rounded, widest slightly before middle and distinctly narrowed anteriorly and more strongly so posteriorly, basal margin slightly rounded posteriorly, dorsal surface convex, finely granulate, sparsely impressed by fine punctures, and with a pair of deep oblique depressions laterally. Scutellum subtriangular, somewhat wrinkled, sparsely impressed by minute punctures. Elytron with lateral margin slightly rounded, surface distinctly and rather closely punctate and their interstices finely granulate.

Male : Head with large cavity on middle of frons ; fifth abdominal segment trilobed apically.

Female : Head with frons convex ; fifth abdominal segment entire.

Length : 6.5-7.7 mm.

Holotype (MUNCHEN) : LAOS : Umgeb. Vientiane, iii-vi. 1963. Paratypes : LAOS : 2 exs., same data as the holotype ; Umgeb. Paklay, 1 ex., 1963 (MUNCHEN) ; Ban Van Eue, 20 km E. of Phou-kow-kuei, 1 ex., 15-31. v. 1965, J. A. Rondon (BISHOP).

This new species somewhat resembles *Acroxena nasuta* Baly, but differs in having the legs pitchy black with the basal $\frac{2}{3}$ of femora brownish and in the male the head with a large cavity on the middle of frons.

***Acroxena fulva* n. sp.** Fig. 66b

Entirely yellowish brown; in male antenna with exterior margin of third to fifth segments infusate.

Head with vertex finely granulate, sparsely impressed by minute punctures, interocular space much wider than transverse diameter of single oculus, interocular transverse impression feebly impressed, and with several large punctures along the impression, frontal tubercle transverse, subquadrate, contiguous, distinctly raised, surface finely granulate. Antenna slender, nearly as long as body length ; first segment robust, especially in male, second shortest, nearly $\frac{1}{6}$ as long as first in male, second shortest, nearly $\frac{1}{6}$ as long as first, third eight times as long as second in male and five times as long as second in female, fourth slightly longer than third, fifth slightly shorter than fourth, fifth to tenth subequal to each other in length and shape, eleventh $1 \frac{1}{4}$ times as long as tenth and its apex pointed. Pronotum transverse, $1 \frac{2}{3}$ times as broad as long, anterior margin slightly rounded posteriorly, lateral margin distinctly rounded, widest slightly before middle and distinctly narrowed anteriorly and posteriorly, basal margin slightly rounded posteriorly, dorsal surface convex, finely granulate, and with a pair of deep oblique depressions laterally, punctures generally finely and sparsely impressed but more strongly and closely impressed on the depression. Scutellum subtriangular, somewhat wrinkled, sparsely impressed by minute punctures. Elytron with lateral margin slightly rounded, surface distinctly and rather closely punctate and their interstices finely granulate.

Male : Head with frons transversely excavated and with a tuft of hairs on middle of anterior and posterior margins of excavation ; fifth abdominal segment trilobed apically ; antenna robuster than female. **Female** : Head with frons convex ; fifth abdominal segment entire.

Length : 7.8-8.3 mm.

Holotype (Type No. 2706, Kyushu Univ.) : THAILAND : Chiangmai Prov., Chiang Dao, 23 iv. 1973, Y. Yoshiyasu. Paratypes : LAOS : Umgeb. Vanky, 1 ex., 1963 (MUNCHEN). VIETNAM : Chute de Bourg, 37 km SE of Dalat, 780 m, 1 ex., 25. iv. 1960, R. E. Leech (BISHOP).

This new species closely resembles *Acroxena indica* Jacoby, from India, but differs in having pronotum widest almost at $\frac{1}{3}$ from the anterior corner and slightly narrowed anteriorly and posteriorly, and in the male the head with frons transversely sulcated and with a tuft of hairs on the middle of the anterior and the posterior margins of the excavation.

Acroxena nasuta Baly Fig. 66c

Acroxena nasuta Baly, 1879, Cist. Ent., 2 : 462 (Assam ; BM).—Maulik, 1936, Fauna India, Galeruc.: 565, fig. (India).—Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B : 687 (NE India).—Kimoto & Takizawa, 1972, Kontyû, Tokyo, 40 (4) : 222 (Nepal).

Acroxena paradoxa Laboissière, 1936, Ann. Soc. Ent. France, 105 : 240 (Tonkin ; BRUXELLES).—Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B : 687 (Vietnam). New **synonym**.

Distribution : India, Nepal, Thailand, Vietnam.

Material examined. THAILAND: Khao Yai, 1 ex., 10. iv. 1963, Native collr (BISHOP).

Genus **Pseudeustetha** Jacoby

Pseudeustetha Jac., 1899, Stett. Ent. Ztg., 60 : 311 (type : *Pseudeustetha quadriplagiata* Jacoby ; Sumatra).

Avinasa Maulik, 1936, Fauna India, Galeruc. : 456 (type : *Anthipha hirsuta* Jacoby ; Assam).

Pseudeustetha hirsuta (Jacoby) Fig. 67b

Anthipha hirsuta Jac., 1891, Entomologist, 24 (suppl.) : 32 (Assam ; BM).

Anthipha pubescens Jacoby, 1892, Ann. Mus. Civ. Genova, 32 : 971 (Burma : Carin Cheba ; GENOVA). New **synonym**.

Avinasa pubescens : Maulik, 1936, Fauna India, Galeruc. : 457 (Burma).—Chûjô, 1964, Nature and Life in SE Asia, Kyoto, 3 : 288 (Thailand).

Pseudeustetha hirsuta : Aslam, 1972, J. Nat. Hist., 6 : 501 (genus).

Pseudeustetha pubescens : Aslam, 1972, J. Nat. Hist., 6 : 501 (genus).

Distribution : India, Burma, Thailand, Cambodia, Laos.

Suboval ; dorsal surfaces thickly covered by fine hairs ; coloration variable : in most pale colored specimen entirely yellowish to reddish brown and in most dark colored specimen generally pitchy black with abdomen reddish brown ; length 3.8-5.7 mm.

Material examined. THAILAND : Trang Prov., Khaophapha, Kaochang, 200-400 m, 1 ex., 3. i. 1964, 2 exs., 10. i. 1964, 1 ex., 13. i. 1964, G. A. Samuelson ; Chiangmai Prov., Chiang Dao, 450 m, 2 exs., 5-11. iv. 1958, J. L. Gressitt ; Chanthaburi Prov., Prew, 1 ex., 25-30. iv. 1958, T. C. Maa ; Banna, 1 ex., 5-10. iv. 1958, T. C. Maa ; S. Banna, Nakhon, 108 m, 1 ex., 5-10. v. 1958, T. C. Maa ; Philiu, 1 ex., 23. iv. 1963, Native collr ; Khao Yai, 2 exs., 10. iv. 1963, Native collr (BISHOP) ; Chiangmai Prov., Tankeo, Doi Suthep, 800 m, 1 ex., 10. vi. 1965, Y. Miyatake ; Khao Yai Nat. Park, 2 exs., 6. vi. 1965, Y. Miyatake, 4 exs., 25. vi. 1965, K. Morimoto & Y. Miyatake ; Prew, 1 ex., 29. viii. 1973, K. Yano (KU). CAMBODIA: Damrey Phong, 1 ex., 14-16. iv. 1961, N. R. Spencer (BISHOP). LAOS : Vientiane Prov., Phou-kow-kuei, 1 ex., 15. iv. 1965, J. L. Gressitt ; Vientiane Prov., Ban Van Eue, 1 ex., 1-15. ix. 1967, Native collr (BISHOP).

Genus **Emathea** Baly

Emathea Baly, 1865, Ent. Monthly Mag., 2 : 147 (type : *Emathea aeneipennis* Baly ; Sumatra).

—Maulik, 1936, Fauna India, Galeruc. : 324.

KEY TO SPECIES OF *Emathea*

- 1 Elytral humerus distinctly raised2
 Elytral humerus not distinctly raised ; generally black ; elytron with basal and apical markings yellowish brown ; length 5.3-6.0 mm*aptera*
- 2(1) Elytral punctures finer, interstices of punctures wider than average diameter of punctures ; generally reddish brown, elytron with basal and subapical markings violaceous blue, in some specimen elytron entirely bluish ; length 5.7-6.5 mm*punctata*
 Elytral punctures stronger, interstices of punctures narrower than average diameter of punctures ; generally reddish brown with elytron with purplish sheen in most cases ; length 6.6-7.5 mm*subcaerulea*

***Emathea aptera* n. sp.** Fig. 67c

Apterous. Generally black ; elytron with a basal and an apical markings large, yellowish brown, Head with vertex smooth, shining, sparsely impressed by minute punctures, interocular space much wider than transverse diameter of single oculus, and interocular transverse impression distinct, frontal tubercle transverse, subtriangular, contiguous, distinctly raised, surface somewhat wrinkled. Antenna slender, nearly as long as body length ; first segment robust, somewhat club-shaped, second shortest, nearly $\frac{2}{3}$ as long as first, third $1\frac{1}{3}$ times as long as second, fourth slightly longer than third, fifth subequal to fourth in length and shape, sixth slightly shorter than fifth, and sixth to ninth subequal to each other in length and shape, tenth slightly shorter than ninth in length, eleventh $1\frac{1}{3}$ times as long as tenth and its apex pointed. Pronotum transverse, almost twice as broad as long, anterior margin slightly rounded posteriorly, lateral margin distinctly rounded, widest almost at middle, slightly narrowed anteriorly and posteriorly, basal margin distinctly rounded posteriorly ; anterior corner thickened, distinctly produced anteriorly, and posterior corner angulate, each with a setigerous pore ; dorsal surface convex side to side, smooth, shining, sparsely impressed by minute punctures. Scutellum subtriangular, sparsely impressed by minute punctures. Elytron with humerus not raised, lateral margin distinctly rounded, surface smooth, shining, rather closely impressed by distinct punctures.

Length : 5.3-6.0 mm.

Holotype (BISHOP) : LAOS : Vientiane Prov., Ban Van Eue, 15. iv. 1965, J. L. Gressitt. Paratypes : LAOS : Vientiane Prov., Ban Van Eue, 1 ex., 15-31. v. 1965, J. A. Rondon ; Sayaboury Prov., Sayaboury, 1 ex., 15. iv. 1965, J. L. Gressitt (BISHOP).

This new species somewhat resembles *Emathea punctata* (Allard), but differs in having elytral humerus not distinctly raised and elytron blackish with a basal and an apical markings yellowish brown.

***Emathea punctata* (Allard)**

Sphaeroderma punctata All., 1889, Ann. Soc. Ent. France, 1889 : 307 (Annam ; PARIS).

Emathea punctata : Laboissière, 1934, Ann. Ass. Nat. Levallois-Perret, 21 : 140 (Tonkin).

Dercetes amoena Weise, 1922, Tijdschr. Ent., 65 : 95 (Tonkin ; STOCKHOLM). New **synonym**.

Emathea moseri Weise, 1922, Tijdschr. Ent., 65 : 98 (Tonkin ; STOCKHOLM). New **synonym**.

Dercetina amoena : Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B : 705 (China).

Distribution : Vietnam, China.

Material examined. VIETNAM : Dilinh (Djiring), 1,200 m, 1 ex., 22-28. iv. 1960, S. Quate ; 28 km

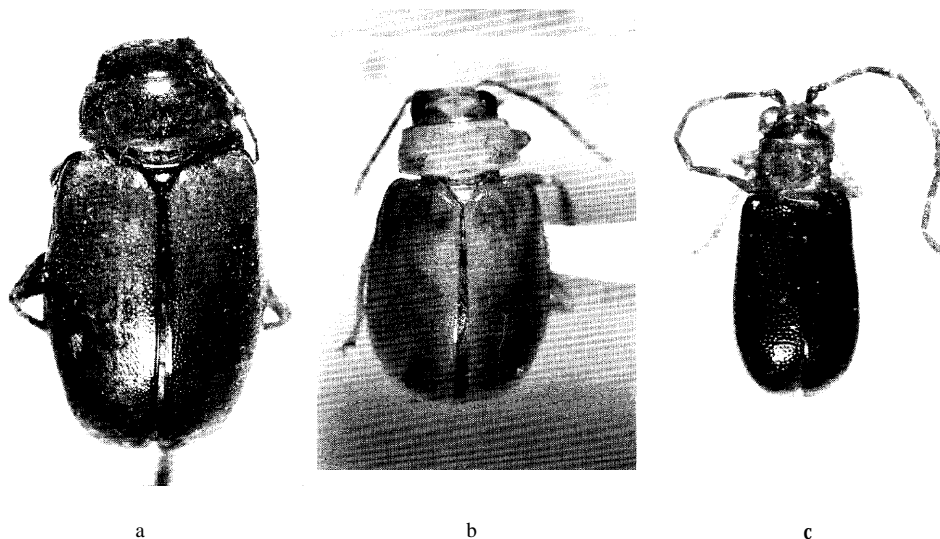


Fig. 68. a, *Doryidella pallida* (Jacoby) ; b, *D. minor* n. sp. ; c, *Dercetisoma khonkaenicum* n. sp.

N. of Dilinh (Djiring), 1 ex., 22-28. iv. 1960, S. Quate ; SW of Pleiku, 400 m, 1 ex., 12. v. 1960, L. W. Quate ; 20 km N. of Pleiku, 1 ex., 650 m, 9. v. 1960, S. Quate & L. Quate ; Ban Me Thuot, 500 m, 1 ex., 16-18. v. 1960, L. W. Quate ; 22 km S. of Nha Trang, 2 exs., 20-26. xi. 1960, C. M. Yoshimoto (BISHOP).

Emathea subcaerulea (Jacoby), new combination

Antipha subcaerulea Jac., 1891, Entomolog., 1891, suppl.: 33 (Assam ; BM).

Anthipha semicaerulea Jacoby var., 1892, Ann. Mus. Civ. Genova, 32 : 998 (Burma) (nomen nudum ; ? error of *subcaemlea*).

Dercetis subcaemlea : Maulik, 1936, Fauna India, Galeruc. : 364 (India, Burma).

Cyclanthipha ulyssis Laboissière, 1932, Ann. Ass. Nat. Levallois-Perret, 20 : 138 (Tonkin ; HAMBURG). New synonym.

Distribution : India, Burma, Thailand, Vietnam.

Material examined. THAILAND : Chiangmai Prov., Doi Pui, 1,360 m, 1 ex., 2. v. 1958, T. C. Maa (BISHOP) ; Chiangmai Prov., Doi Pui, 1,300 m, 1 ex., 17. vi. 1965, K. Morimoto ; Chiangmai Prov., Fang, 2 exs., 14. vi. 1965, Y. Miyatake (KU).

Genus *Doryidella* Laboissière

Doryidella Lab., 1940, Bull. Mus. Hist. Nat. Belg., 16(37) : 7 (type : *Buphonida pallida* Jacoby ; Burma).

KEY TO SPECIES OF *Doryidella*

- 1 Pronotum convex from side to side ; generally yellowish brown, in some specimen lateral,

sutural and apical margins blackish in various degrees ; antenna pitchy black with two or three basal segments and basal part of each remaining segment brownish in various degrees; length 7.2—9.0 mm *pallida*

Pronotum with a shallow transverse furrow ; generally yellowish brown ; in some specimen lateral, sutural and apical margins blackish in various degrees ; antenna pitchy black with two or three basal segments brown and basal part of each remaining segment brownish in various degrees ; length 5.0-6.0 mm *minor*

***Doryidella minor* n. sp.** Fig. 68b

Generally yellowish brown ; in some specimen lateral, sutural and apical margins blackish in various degrees ; antenna pitchy black with two or three basal segments yellowish brown and basal part of each remaining segment brownish in various degrees.

Head with vertex smooth, shining, sparsely impressed by minute punctures, interocular space much wider than transverse diameter of single oculus, and interocular transverse impression distinct, frontal tubercle oblique, subquadrate, distinctly raised, widely separated to each other by frons, surface smooth, shining, sparsely impressed by minute punctures. Antenna slender, nearly $\frac{2}{3}$ as long as body length ; first segment robust, somewhat club-shaped, second shortest, nearly $\frac{1}{3}$ as long as first, third $1\frac{1}{2}$ times as long as second, fourth $1\frac{3}{4}$ times as long as third, fourth to eighth subequal to each other in length and shape, ninth slightly shorter than eighth, tenth subequal to ninth in length and shape, eleventh subequal to eighth in length but its apex pointed. Pronotum transverse, almost $2\frac{1}{3}$ times as broad as long, anterior margin slightly rounded posteriorly, lateral margin distinctly rounded, widest almost at middle, slightly narrowed anteriorly and posteriorly, basal margin distinctly rounded posteriorly ; anterior corner thickened, distinctly produced laterally, and posterior corner angulate, each with a setigerous pore, dorsal surface convex, with a shallow transverse furrow subbasally, smooth, shining, rather closely impressed by distinct punctures, Scutellum subtriangular, surface smooth, shining, Elytron with lateral margin rounded, surface smooth, shining, rather closely impressed by distinct punctures.

Length : 5.0-6.0 mm.

Holotype (BISHOP) : LAOS : Borikhane Prov., Pakkading, 23. iv. 1965, J. L. Gressitt. Paratopotypes: 7 exs., same data as the holotype (BISHOP, KIMOTO). Paratypes: THAILAND: "Siam", 4 exs. (BANGKHEN). LAOS: Wapkhathong Prov., Khong Sedone, 1 ex., 16. v. 1965, Native collr (BISHOP). VIETNAM :M'Drak, E. of Ban Me Thuot, 4-600 m, 1 ex., 8-19. xii. 1960, C. M. Yoshimoto (BISHOP).

This new species is separable from *Doryidella pallida* (Jacoby), in being the body length shorter, and having pronotum with a transverse furrow, and vertex more strongly separated from frons and frontal tubercle by a distinct transverse furrow.

***Doryidella pallida* (Jacoby)** Fig. 68a

Buphonida pallida Jac., 1892, Ann. Mus. Civ. Genova, 32 : 959 (Burma ;GENOVA).—Maulik, 1936, Fauna India, Galeruc. : 240 (Burma).

Doryidella pallida :Laboissière, 1940, Bull. Mus. Hist. Nat. Belg., 16(37) : 8 (Burma).

Distribution : Burma, Thailand, Laos, Vietnam.

Material examined. THAILAND: Chiangmai Prov., Fang, 500 m, 1 ex., 13. vi. 1965, P. D. Ashlock (BISHOP). LAOS : Vientiane Prov., Ban Van Eue, 1 ex., 12. iv. 1965, J. L. Gressitt, 11 exs., 15-31. v. 1965, 2 exs., 15. iv. 1966, Native collr ; Khammouane Prov., Phon Tiou, 1 ex., 28. ix. 1965,

Native collr ; Sayaboury Prov., Sayaboury, 1 ex., 15. iv. 1965, J. L. Gressitt, 1 ex., 17. v. 1965, 1 ex., 30. v. 1965, 2 exs., 21. iv. 1966, Native collr ; Sedone Prov., 5 km E. of Pakse, 1 ex., 13. v. 1965, P. D. Ashlock ; Wapikhamthong Prov., Khong Sedone, 1 ex., 30. v. 1965, Native collr ; Muong Sing, NW. of Luang Prabang, 650 m, 2 exs., 6-10. vi. 1960, L. Quate (BISHOP) ; Umgeb. Vientiane, 5 exs., iii-vi. 1963 ; Umgeb. Paklay, 3 exs., 1963 ; Umgeb. Pakse, 1 ex., 1963, 1 ex., 1964 ; Umgeb. Vanky, 1 ex., 1963 (MUNCHEN). VIETNAM : 20 km N. of Pleiku, 4 exs., 9. v. 1960, S. Quate & L. Quate (BISHOP).

Genus *Dercetisoma* Maulik

Dercetisoma Maulik, 1936, Fauna India, Galeruc. : 455 (type : *Antipha concolor* Jacoby ; Burma).

KEY TO SPECIES OF *Dercetisoma*

Pronotum wider, nearly 1 2/3 times as wide as long, coloration variable : generally yellowish to reddish brown, in some specimen elytron bluish black ; length 3.9-5.3 mm *concolor*
 Pronotum narrower, nearly 1 1/3 times as wide as long, pronotum and elytron more strongly punctate ; head and prothorax reddish brown, scutellum black, elytron bluish black, antenna pitchy black, meso- and metathorax black, legs generally reddish brown ; length 3.0-3.3 mm *khonkaenicum*

Dercetisoma concolor (Jacoby) Fig. 69a

Antipha concolor Jac., 1889, Ann. Mus. Civ. Genova, ser. 2, 7 : 222 (Burma ; GENOVA).

Antipha puncticollis Jacoby, 1889, Ann. Mus. Civ. Genova, ser. 2, 7 : 222 (Burma ; GENOVA).

New **synonym**.

Antipha brunnea Allard, 1889, C. R. Soc. Ent. Belg., 33 : 108 (Malacca).-Maulik, 1936, Fauna India, Galeruc. : 455 (= *concolor*).

Sutrea modesta Allard, 1889, Ann. Soc. Ent. France, 1889 : 306 (Cambodia ; PARIS). New **synonym**.

Dercetis modesta : Laboissière, 1935, Ann. Ass. Nat. Levallois-Perret, 21 : 140 (Tonkin).

Dercetisoma concolor : Maulik, 1936, Fauna India, Galeruc. : 455 (Burma, Sumata, Java, Mallaca).

—Chûjô, 1964, Nature and Life in SE Asia, Kyoto, 3 : 289 (Thailand).

Dercetis flavescens : Chûjô, 1961, Nature and Life in SE Asia, Kyoto, 1 : 350 (Thailand : Fang).

Dercetisoma puncticollis : Chûjô, 1964, Nature and Life in SE Asia, Kyoto, 3 : 289 (Thailand).

Distribution : Burma, Thailand, Cambodia, Vietnam, Malaya, Sumatra, Java.

As suggested by Chûjô (1964), *Antipha puncticollis* Jacoby is nothing but a *infraspecific* variation. Also, *Sutrea modesta* Allard is a synonym of present species.

Material examined. THAILAND : Chiangmai Prov., Chiangmai, 1,100-1,500 m, 7 exs., 11-12. iv. 1966, J. Sedlacek ; Chiangmai Prov., Doi Suthep, 1 ex., 28-31. iii. 1958, T. C. Maa ; Chiangmai Prov., Fang, 2 exs., 12-19. iv. 1958, T. C. Maa ; Chiangmai Prov., Chiangdao, 2 exs., 5-11. iv. 1958, T. C. Maa ; Trang Prov., Khaophappa, Khaochang, 200 m, 3 exs., 11-12. i. 1964, G. A. Samuelson ; Chanthaburi Prov., Prew, 2 exs., 25-30. iv. 1958, T. C. Maa ; Tak, 1 ex., 10. iv. 1966, J. Sedlacek ; 50 km West of Tak, 900 m, 2 exs., 7-8. iv. 1966, J. Sedlacek ; Praehsi-Saraburi, 20 m, N. of Bangkok, 2 exs., 1. xii. 1957, J. L. Gressitt ; Packchong, 100 m, NE. of Bangkok, 1 ex., 3. xii. 1957, J. L. Gressitt (BISHOP) ; Chiangmai Prov., Chiangmai, 1 ex., 9. vi. 1965, K. Morimoto ; Chiangmai Prov., Botanical Garden, 1 ex., 12. vi. 1965, Y. Miyatake ; Chiangmai Prov., Fang, 2 exs., 14. vi. 1965, K. Morimoto & Y.

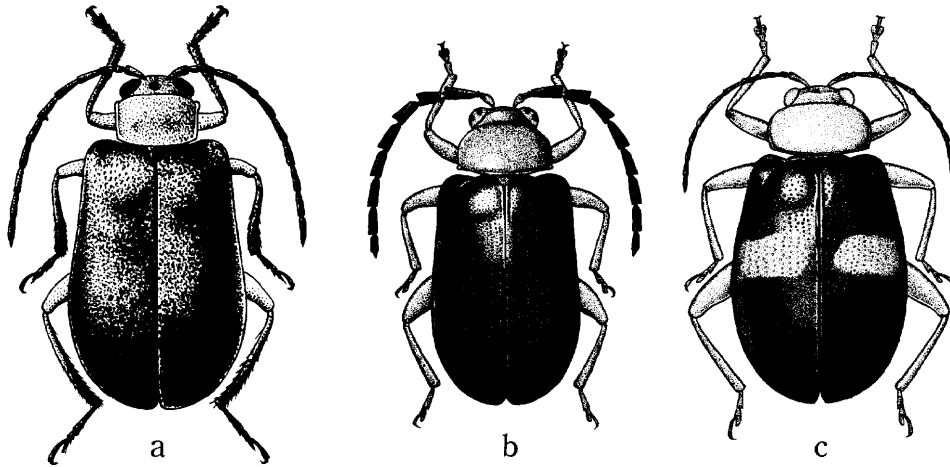


Fig. 69. a, *Dercetisoma concolor* (Jacoby); b, *Arthrotus nigripennis* (Jacoby); c, *Dercetina flavocincta* (Hope).

Miyatake, 1 ex., 23. iv. 1973, Y. Yoshiyasu ; Chiangmai Prov., Doi Suthep, 1,000 m, 1 ex., 6. vi. 1965, 1 ex., 10. vi. 1965, K. Morimoto ; Chiangmai Prov., Ban Tap Dua, Chiang Dao, 1 ex., 15. viii. 1973, K. Yano ; Mae Sa Water Fall, 1 ex., 16. vi. 1965, K. Morimoto ; Sarapi, nr. Chiangmai, 2 exs., 18. vii. 1970, K. Yano ; Khao Chong, nr. Trung, 2 exs., 26-27. vi. 1965, K. Morimoto ; Khao Yai Nat. Park, 1 ex., 6. vi. 1965, Y. Miyatake ; Mae Klang Water Fall, nr. Chom Thong, 1 ex., 11. vi. 1965, Y. Miyatake ; Muak Lek, 40 km SE of Saraburi, 1 ex., 5. vi. 1965, Y. Miyatake ; Prew, 1 ex., 29. viii. 1973, K. Yano ; Sanpatong, 2 exs., 6. vii. 1970, sweeping of paddy field, K. Yano (KU) ; Khon Kaen, 1 ex., 24. vii. 1980, 1 ex., 8. x. 1981, S. Azuma (RU) ; Khon Kaen, 1 ex., 15. x. 1972, M. Sato ; Fang Spa, 1 ex., 21. xi. 1968, K. Hatta (EHIME) ; Fang, 1 ex., 22. xi. 1968, M. Sato (KIMOTO). LAOS : Vientiane Prov., Vientiane, 1 ex., 29. vii. 1965, 1 ex., 3. viii. 1965, 1 ex., 21. iii. 1966, Native collr ; Vientiane Prov., Ban Van Eue, 2 exs., 13. iv. 1965, J. L. Gressitt, 4 exs., 15-31. v. 1965, Native collr ; Vientiane Prov., Tha Ngone, 1 ex., 30. ix. 1965, 1 ex., 20. xi. 1965, 1 ex., 30. xi. 1965, Native collr ; Vientiane Prov., Gi Sion Vill., de Tha Ngone, 1 ex., 7-21. ii. 1965, 1 ex., 5-19. xii. 1965, 3 exs., 2. i. 1966, 1 ex., 24-31. x. 1966, Native collr ; Sayaboury Prov., Sayaboury, 1 ex., 17. ii. 1965, 5 exs., 6. xii. 1965, 2 exs., 14. xii. 1965, 1 ex., 30. xii. 1965, Native collr ; Borikhane Prov., Pakkading, 2 exs., 31. vii. 1965, 1 ex., 3. viii. 1965, Native collr ; Borikhane Prov., Namkading, nr. Pakkading, 3 exs., 21. iv. 1965, J. A. Rondon, 5 exs., 22. iv. 1965, J. L. Gressitt ; Wapikhamthong Prov., Wapi, 1 ex., 15. x. 1967, Native collr ; Khammouane Prov., Phon Tiou, 1 ex., 17. x. 1965, Native collr ; Nongteveda, 1 ex., 4. xi. 1965, 1 ex., 2. xii. 1965, 1 ex., 22. xii. 1965, Native collr (BISHOP) ; Umgeb. Vientiane, 3 exs., iii-vi. 1963 ; Umgeb. Pakse, 2 exs., 1963, Umgeb. Paklay, 1 ex., 1963 (MUNCHEN). VIETNAM : Fyan, 4 exs., 11. vii-9. viii. 1961, N. R. Spencer ; Dalat, 1,500 m, 1 ex., 29. iv-4. v. 1960, L. W. Quate ; Dalat, 6 km S., 1,400-1,500 m, 3 exs., 9. vi-7. vii. 1961, N. R. Spencer ; 6 km SW, Dalat, 1,550 m, 1 ex., 11. ix. 1960, J. L. Gressitt ; Dilinh (Djiring), 1,200 m, 1 ex., 22-28. iv. 1960, S. Quate ; Ap Hung-Lam, 21 km NW of Dilinh, 1,100 m, 3 exs., 29. ix-5. x. 1960, C. M. Yoshimoto ; Blao (Barao), 500 m, 1 ex., 14-21. x. 1960, C. M. Yoshimoto ; Dai Lanh, N. of Nha Trang, 1 ex., 30. xi-5. xii. 1960, C. M. Yoshimoto ; 25 km SW. of Pleik, 400 m, 1 ex., 12. v. 1960, L. W. Quate ; Kontum, N. of Pleik, 550 m, 2 exs., 13. v. 1960, L. W. Quate ; Ban Me Thuot, 500 m, 1 ex., 16-18. v. 1960, S. Quate, 1 ex., 20-24. xii. 1960, C. M. Yoshimoto ; 10 km E. of Ban Me Thuot, 570 m, 1 ex., 10. v. 1960, R. E. Leech ; M'Drak, E. of Ban Me Thuot, 4-600 m, 1 ex., 8-19. xii.

1960, C. M. Yoshimoto (BISHOP).

Dercetisoma khonkaenicum n. sp. Fig. 68c

Head and prothorax reddish brown, scutellum black, elytron bluish black, antenna pitchy black, meso- and metathorax black, legs reddish brown, with tarsi and apices of tibiae somewhat infuscate.

Head with vertex smooth, shining, sparsely impressed by minute punctures, interocular space much wider than transverse diameter of single oculus, and interocular transverse impression distinct, frontal tubercle transverse, subtriangular, contiguous, distinctly raised, surface smooth, shining, impunctate. Antenna slender, nearly $3/4$ as long as body length; first segment robust, club-shaped, second short, nearly $1/3$ as long as first, third slightly shorter than second, fourth nearly $2\frac{2}{5}$ times as long as the length of second and third combined, fifth slightly shorter than fourth in length, fifth to tenth subequal to each other in length and shape, eleventh subequal to tenth in length but its apex pointed. Pronotum transverse, $1\frac{1}{3}$ times as broad as long, lateral margin feebly rounded, widest almost at anterior margin, and gradually narrowed posteriorly, basal margin distinctly rounded posteriorly; dorsal surface convex, with a pair of deep depressions laterally, smooth, shining, rather closely impressed by distinct punctures especially on depression. Scutellum subtriangular, smooth, shining, impunctate. Elytron with lateral margin subparallel-sided, apex rounded, surface strongly and rather closely punctate, and their interstices smooth, shining.

Length : 3.0-3.3 mm.

Holotype (RU) : THAILAND : Khon Kaen, 7. x. 1981, S. Azuma. Paratopotypes : 21 exs., same data as the holotype. Paratypes: THAILAND : Khon Kaen, 8 exs., 8. x. 1981, S. Azuma (RU, KIMOTO).

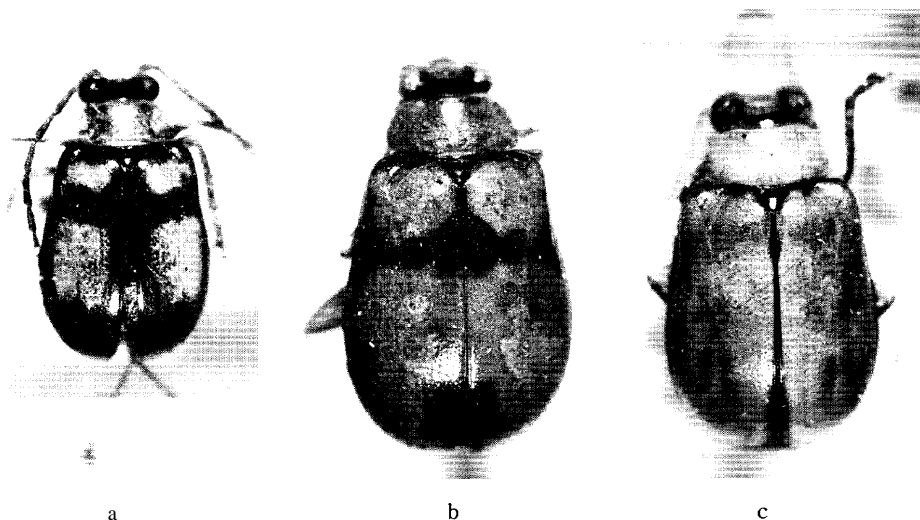
This new species resembles *Dercetisoma concolor* (Jacoby), but differs in having the body more elongate, pronotum more narrower, and pronotum and elytron more strongly punctate.

Genus *Arthrotus* Motschulsky

Arthrotus Motsch., 1857, Etud. Ent., 6 : 38 (type : *Arthrotus niger* Motschulsky ; Japan).—Ogloblin, 1936, Fauna USSR, 26, 1 : 328, 376.—Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B : 691.
Taphinella Jacoby, 1889, Ann. Mus. Civ. Genova, 27 : 224 (type : *Taphinella nigripennis* Jacoby ; Burma).

KEY TO SPECIES OF *Arthrotus*

- 1 Oblong, elytron with lateral margin subparallel-sided, apex rounded2
- Oval, elytron with lateral margin rounded and widened posteriorly3
- 2(1) Elytron with punctures confusedly impressed; coloration variable : generally yellowish to reddish brown, in some specimen elytron with basal, lateral, sutural and apical margins blackish in various degrees, and in most dark colored specimen elytron entirely black; antenna generally black; length 4.5-5.0 mm*nigripennis*
- Elytron with punctures arranged in semiregular rows of punctures; generally blackish blue, elytron violaceous, legs black; length 8.0 mm*blanchardi*
- 3(1) Body length shorter than 4.0 mm 4
- Body length longer; generally bluish black, abdomen yellowish brown; length 4.0-4.5 mm*cyanipennis*
- 4(3) Dorsal surfaces in part blackish, at least elytron with margins generally black-

Fig. 70. a, b, c, *Arthrotus phaseoli* Laboissière.

- ish 5
- Dorsal surfaces entirely yellowish to reddish brown ; antenna generally blackish ; in dark colored specimen head, meso- and metathorax and legs blackish in various degrees ; length 3.0-5.0 mm *antennalis*
- 5(4) Elytron generally brownish with several colors of bands 6
- Elytron without many colors of bands 7
- 6(5) Elytron reddish brown with basal, postmedian and apical bands blackish ; generally yellowish to reddish brown, meso- and metathorax black ; length 3.5-5.0 mm *tonkinensis*
- Elytron with four colors of reddish, blackish, yellowish and blackish bands, of which second band is narrowest ; generally yellowish to reddish brown ; head and antenna generally blackish, length 4.3-5.0 mm *duporti*
- 7(5) Elytron pitchy black with an apical marking yellowish brown ; generally yellowish to reddish brown, meso- and metathorax blackish, antenna blackish, length 3.3-4.5 mm *coomani*
- Elytral coloration variable, 1) bluish black with basal and postmedian markings yellowish brown, 2) bluish black with postmedian marking yellowish brown, 3) entirely bluish black, 4) basal and postmedian markings enlarged and united, 5) generally yellowish brown with margins blackish in various degrees; generally yellowish to reddish brown ; meso- and metathorax blackish ; length 3.3-5.0 mm *phaseoli*

Arthrotus antennalis Laboissière

Arthrotus antennalis Lab., 1932, Ann. Ass. Nat. Levallois-Perret, 20 : 134 (Tonkin ; HAMBURG).
Arthrotus pumilus Laboissière, 1932, *ibid.*, 20 : 134 (Tonkin ; HAMBURG). New **synonym**.
Arthrotus tarsalis Laboissière, 1932, *ibid.*, 20 : 134 (Tonkin ; HAMBURG). New **synonym**.
Arthrotus frontalis Laboissière, 1932, *ibid.*, 20 : 133 (Tonkin ; HAMBURG). New **synonym**.
Arthrotus pallidus : Kimoto & Takizawa, 1983, Bull. Natn. Sci. Mus., Tokyo, ser. A, 9 (2) : 92

(Nepal).

Distribution : Nepal, Thailand, Vietnam.

This species might be a synonym of *Arthrotus phaseoli* Laboissière, which is very variable species on the coloration of the dorsal surfaces.

Material examined. THAILAND: Uthaithani, 10 exs., 13. iv. 1963 (BANGKHEN).

***Arthrotus blanchardi* (Allard), new combination**

Antipha blanchardi Allard, 1891, Nouv. Arch. Mus. Paris, ser. 3, 3 : 234 (Luang-Prabang à Theng) ; 1895, Miss. Pavie Indo-Chine, 3 : 163, fig. (Cambodge).

Distribution : Cambodia, Laos.

Judging from the original description and the figure, this species seems to be a member of *Arthrotus*. I could not examined the type of this species.

***Arthrotus coomani* Laboissière**

Arthrotus coomani Lab., 1932, Ann. Ass. Nat. Levallois-Perret, 20 : 135 (Tonkin ; HAMBURG).

Distribution : Vietnam.

Material examined. "Indo-China", 1 ex. (BASEL).

***Arthrotus cyanipennis* (Laboissière), new combination**

Taphinella cyanipennis Lab., 1936, Ann. Soc. Ent. France, 105 : 255, figs. (Tonkin ; HAMBURG).

Distribution : Vietnam.

Material examined. "Indo-China", 1 ex. (BASEL).

***Arthrotus duporti* Laboissière Fig. 71b**

Arthrotus duporti Lab., 1932, Ann. Ass. Nat. Levallois-Perret, 20 : 132 (Tonkin ; HAMBURG).

Distribution : Vietnam.

Material examined. "Indo-China", 1 ex. (BASEL).

***Arthrotus nigripennis* (Jacoby) Fig. 69b**

Taphinella nigripennis Jac., 1889, Ann. Mus. Civ. Genova, 27 : 224 (Burma ; GENOVA) ; 1900, Mém. Soc. Ent. Belg., 7 : 140 (mentioned) ; 1905, Fac. Malay. App. 2 : 5 (Siam).-Maulik, 1936, Fauna India, Galeruc. : 329 (Burma, Siam).

Arthrotus nigripennis: Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B : 699 (China, Tonkin: Hoa-binh).

Distribution : Burma, Thailand, Laos, Vietnam, China.

Material examined. THAILAND : Chiangmai Prov., Fang (Agr. Exp. Station), 600 m, 1 ex., 14. vi. 1965, P. D. Ashlock ; Chiangmai Prov., Fang, 500 m, 1 ex., 15. iv. 1958, T. C. Maa ; Chiangmai Prov., Chiangdao, 450 m, 2 exs., 5-11. iv. 1958, T. C. Maa ; Chiangmai Prov., Mae Sa, 1 ex., 16. vi. 1965, P. D. Ashlock ; Loey Prov., 17 km NW of City, 1 ex., 18. v. 1967, Native collr (BISHOP) ; Chiangmai Prov., Fang, 11 exs., 13-14. vi. 1965, K. Morimoto & Y. Miyatake, 1 ex., 22. viii. 1973, K. Yano, 1 ex., 22. viii. 1973, S. Nakao ; Chiangmai Prov., Chieng Dao, 9 exs., 15. vi. 1965, K. Morimoto ; Chiangmai Prov., Doi Suthep, 1,000 m, 1 ex., 10. vi. 1965, K. Morimoto ; Chiangmai Prov., Doi Pui, 1,300 m, 1 ex., 8. vi.



Fig. 71. a, *Arthrotus phaseoli* Laboissiere ; b, *A. duporti* Laboissiere ; c, *A. tonkinensis* Laboissiere.

1965, Y. Miyatake ; Chiangmai Prov., Mae Sa Water Fall, 2 exs., 16. vi. 1965, K. Morimoto & Y. Miyatake ; Kor Hong, 1 ex., 23. vi. 1965, K. Morimoto (KU). LAOS : Vientiane Prov., Vientiane, 1 ex., 31. vii. 1965, 1 ex., 21. iii. 1966, Native collr ; Vientiane Prov., Ban Van Eue, 4 exs., 31. vii. 1965, Native collr ; Vientiane Prov., Phou Kou Khouei, 3 exs., 10. iv. 1965, J. L. Gressitt ; Sayaboury Prov., Sayaboury, 1 ex., 14. vii. 1965, 1 ex., 3. viii. 1965, 2 exs., 5. v. 1966, 1 ex., 25. viii. 1966, 1 ex., xi. 1966, Native collr ; Khammouane Prov., Phon Tiou, 1 ex., 28. iv. 1965, 2 exs., 30. iv. 1965, 7 exs., 17. v. 1965, 3 exs., 6. vii. 1965, 1 ex., 4. viii. 1965, Native collr ; Khammouane Prov., Bon Nong Sun, 1 ex., 5. vi. 1965, N. Wilson ; Wapikhamthong Prov., Khong Sedone, 1 ex., 17. vii. 1965, Native collr ; Borikhane Prov., Paksane, 1 ex., 7. viii. 1965, Native collr ; Borikhane Prov., Pakkading, 100 m, 1 ex., 23. iv. 1965, J. L. Gressitt ; Houan Khong Prov, Houei Sai, 1 ex., 3. ii. 1965, Native collr ; Sedone Prov., Pakse, 1 ex., 15. v. 1965, P. D. Ashlock ; Muong Sing, NW of Luang Prabang, 650 m, 1 ex., 6-10. vi. 1960, S. Quate & L. Quate (BISHOP) ; Umgeb. Vientiane, 11 exs., iii-vi. 1963 ; Umgeb. Vanky, 4 exs., 1963 ; Umgeb. Pakse, 1 ex., 1963 (MUNCHEN). VIETNAM : Banme Thuot, 500 m, 8 exs., 16-18. v. 1960, L. W. Quate, S. Quate & R. E. Leech ; 33 km N. of Banme Thuot, 870 m, 1 ex., 18. v. 1960, L. W. Quate ; Fyan, 1,200 m, 2 exs., 11. vii.-9. viii. 1961, N. R. Spencer ; 20 km N. of Pleiku, 2 exs., 650 m, 9. v. 1960, L. W. Quate ; 25 km NW of Pleiku, 400 m, 3 exs., 12. v. 1960, L. W. Quate ; Kontum, N. of Pleik, 550 m, 1 ex., 13. v. 1960, L. W. Quate ; Chute de Babla, 7 km W. of Diling (Djiring), 840 m, 27. iv. 1960, R. E. Leech (BISHOP).

***Arthrotus phaseoli* Laboissière** Figs. 70a, b, c, 71a

Arthrotus phaseoli Lab., 1932, Mém. Mus. Hist. Nat. Belg., 4 : 174, fig. (Sumatra, Java, Tonkin : Cho-Ganh, Hoa-Binh ; HAMBURG).

Distribution : Thailand, Laos, Vietnam, Sumatra, Java.

Material examined. THAILAND : Chiangmai Prov., Fang, 500 m, 12. iv. 1958, T. C. Maa ; Banna, Chawang, nr. Nabon, 700 m, 1 ex., 4. ix. 1958, J. L. Gressitt (BISHOP) ; Khao Chong, nr. Trung, 2 exs., 26. vi. 1965, K. Morimoto (KU). LAOS : Sedone Prov., Paksong, 2 exs., 18. v. 1965, P. D.

Ashlock; Vientiane Prov., Gi Sion Vill., de Tha Ngone, 1 ex., 5-19. xii. 1965, Native collr (BISHOP).
 VIETNAM : Fyan, 900-1,200 m, 2 exs., 11. vii.-9. viii. 1961, N. R. Spencer; Dalat, 1,500 m, 1 ex., 29. iv.-
 4. v. 1960, S. Quate & L. Quate; 6 km SW Dalat, 1,550 m, 1 ex., 11. ix. 1960, J. L. Gressitt; Ap Hung-
 Lam, 21 km NW of Dilinh, 1,100 m, 2 exs., 29. ix.-5. x. 1960, C. M. Yoshimoto (BISHOP).

Arthrotus tonkinensis Laboissière Fig. 71c

Arthrotus tonkinensis Lab., 1932, Ann. Ass. Nat. Levallois- Perret, 20 : 136 (Tonkin; HAM -
 BURG).—Chûjô, 1964, Nature and Life in SE Asia, Kyoto, 3 : 285 (Thailand).

Distribution : Thailand, Vietnam.

No additional material was examined beside the type series.

Genus Dercetina Gressitt & Kimoto

Dercetis Clark, 1865, Ann. Mag. Nat. Hist., ser. 3, 15 : 147 (nec Muenster & Agassiz, 1834; Pisces)
 (type : *Dercetis depressa* Clark; Pulo Penang).—Maulik, 1936, Fauna India, Galeruc. : 348.

Antipka Baly, 1865, Ann. Mag. Nat. Hist., ser. 3, 16 : 251 (nec **Antipka** Walker, 1855; Lepidoptera)
 (type : *Antipha picipes* Baly; India; monobasic).

Dercetes : Jacoby, 1892, Entomologist, 25 : 162 (error for **Dercetis** Clark).—Hincks, 1949, Ann.
 Mag. Nat. Hist., ser. 12, 2 : 611 (not new emendation; not status in nomenclature).

Dercetina Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B : 704 (new name for **Dercetis** Clark).

KEY TO SPECIES OF Dercetina

- 1 Elytron with epipleuron narrower subapically
 Elytron with epipleuron wider subapically; elytron with a deep transverse furrow
 subbasally; generally bluish black, abdomen entirely yellowish brown; length 5.6-6.3
 mm *laevicollis*
- 2(1) Elytron with a shallow transverse furrow or without any transverse furrow; body
 length much shorter than 10.0 mm 3
 Elytron with a deep transverse furrow subbasally; entirely reddish brown; length 10.0
 mm *permagna*
- 3(2) Elytron not combination of basal half yellowish and apical half bluish 4
 Elytron yellowish brown with apical half greenish blue; generally yellowish brown;
 length 6.3-7.2 mm *posticata*
- 4(3) Body length shorter than 6.0 mm 5
 Body length longer; generally yellowish brown; in male elytron entirely bluish
 black; in female elytron entirely bluish black; in female elytron entirely yellowish
 brown, in some specimen elytron with basal and subapical markings bluish black;
 length 4.5-6.0 mm *ckiengmaica*
- 5(4) Elytron without three blackish bands dorsally 6
 Elytron yellowish brown with basal, postmedian and apical bands black; generally
 yellowish brown, head, scutellum, meso- and metathorax, tibiae and tarsi black;
 length 4.5-4.8 mm *polycincta*
- 6(5) Elytron bluish black with a broad median transverse band yellowish brown; in some
 specimen elytron entirely bluish; pronotum yellowish brown, ventral surfaces black;
 legs black with femora yellowish brown; head generally black, in some specimen

brownish in various degrees ; length 4.2-4.8 mm*...a..... *flavocincta*
 Coloration of dorsal surface variable : 1) generally yellowish to reddish brown, 2)
 yellowish to reddish brown, elytron with margins blackish, 3) yellowish to reddish
 brown with pronotum and elytral margins black, 4) yellowish brown, elytron with base
 and apical marking bluish black, 5) yellowish brown, elytron entirely black, 6) dorsal
 surfaces entirely blackish ; ventral surface reddish brown, in some specimen blackish
 in various degrees, and in most dark colored specimen entirely blackish ; legs yellow-
 ish brown, in some specimen blackish in various degrees and in most dark colored
 specimen entirely black ; length 4.5-6.0 mm *bretinghami*

***Dercetina bretinghami* (Baly)**

Antipha bretinghami Baly, 1879, Ann. Mag. Nat. Hist., ser. 5, 4 : 118 (India ; BM).

Antipha pallida Allard, 1889, C. R. Soc. Ent. Belg., 33 : 108 (Cochinchina ; PARIS). New **synonym**.

Anthipha inornata Jacoby, 1892, Ann. Mus. Civ. Genova, 32 : 972 (Burma ; GENOVA). New **synonym**.

Dercetes laetifica Weise, 1922, Tijdschr. Ent., 65 : 97 (Tonkin ; STOCKHOLM). New **synonym**.

Arthrotus pallidus Laboissike, 1932, Ann. Ass. Nat. Levallois-Perret, 20 : 133 (Tonkin ; HAMBURG).—Chûjô, 1964, Nature and Life in SE Asia, Kyoto, 3 : 285 (Thailand). New **synonym**.

Dercetis bretinghami : Maulik, 1936, Fauna India, Galeruc. : 360 (India).

Dercetis pallida : Chûjô, 1959, Sci. Rep. Agr. Exped. Cambodia, Hyogo Univ. Agr. Japan, (2) : 60 (Cambodia) ; 1964, Nature and Life in SE Asia, Kyoto, 3 : 285 (Cambodia).

Dercetina huinana Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B : 705, 707 (Hainan ; CAS).

—Kimoto & Takizawa, 1972, Kontyû, Tokyo, 40 (4) : 222, fig. (Nepal). New **synonym**.

Dercetina bretinghami : Kimoto, 1970, Khumbu Himal, 3 (3) : 417 (Nepal).—Kimoto & Takizawa, 1972, Kontyû, Tokyo, 40 (4) : 222 (Nepal).

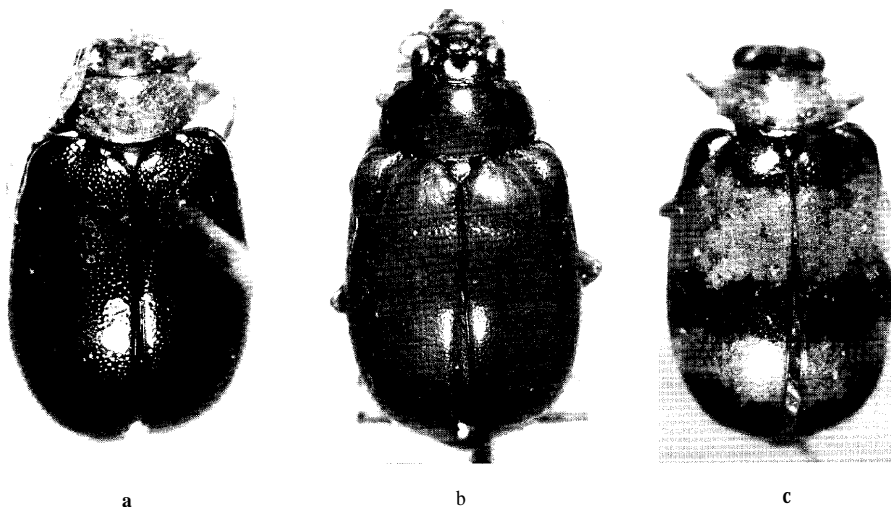


Fig. 72. a, *Dercetina chiengmuica* n. sp. ; b, *D. permagna* n. sp. ; c, *D. trifasciata* (Laboissière).

Distribution : India, Nepal, Burma, Thailand, Cambodia, Laos, Vietnam.

Material examined. THAILAND : Chiangmai Prov., Chiangmai, 2 exs., 9. vi. 1965, P. D. Ashlock ; Chiangmai Prov., Chiengdao, 5 exs., 5-11. iv. 1958, T. C. Maa ; Mae Sa, 2 exs., 16. vi. 1965, P. D. Ashlock ; Chiangmai Prov., Doi Suthep, 1 ex., 14. xi. 1957, J. L. Gressitt, 1 ex., 12. vi. 1965, P. D. Ashlock ; Chiangmai Prov., Fang, 2 exs., 12-19. iv. 1958, T. C. Maa ; Chiangmai Prov., Ban-ting-doi, 350 m, 1 ex., 13. xi. 1958, J. L. Gressitt ; Bangpra, 25 m, 1 ex., 23. xi. 1957, J. L. Gressitt ; 50 km West of Tak, 900 m, 1 ex., 7-8. iv. 1966, J. & J. H. Sedlacek ; Trang Prov., Khaophapha, Khaochong, 200-400 m, 2 exs., 2-3. i. 1964, 1 ex., 10. i. 1964, G. A. Samuelson (BISHOP) ; Chiangmai Prov., Doi Pui, 1 ex., 17. vi. 1965, K. Morimoto ; Chiangmai Prov., Mae Sa Water Fall, 1 ex., 16. vi. 1965, K. Morimoto ; Khao Yai Nat. Park, 1 ex., 6. vi. 1965, Y. Miyatake ; Khao Chong, nr. Trung, 1 ex., 26. vi. 1965, Y. Miyatake (KU) ; Khon Kaen, 1 ex., 4. viii. 1980, 1 ex., 8. x. 1981, S. Azuma (RU) ; Kanchanaburi, 1 ex., 10. viii. 1963 ; Khao Yai, 2 exs., 10. iv. 1963 (BANGKHEN). CAMBODIA : Kiri Rom, 700 m, 1 ex., 31. iii.-7. iv. 1961, N. R. Spencer ; Damrey Phong, 1 ex., 14-16. iv. 1961, N. R. Spencer (BISHOP). LAOS : Vientiane Prov., Vientiane, 1 ex., 22. vii. 1965, Native collr ; Vientiane Prov., Ban Van Eue, 1 ex., 1-15. v. 1965, J. A. Rondon, 1 ex., 15-31. iv. 1965, 3 exs., 15-31. v. 1965, Native collr, 1 ex., 13. iv. 1965, 2 exs., 16. iv. 1965, J. L. Gressitt, 1 ex., 30. ix. 1965, 2 exs., 30. xi. 1965, 1 ex., 15. iii. 1966, 1 ex., 29. iv. 1966, 1 ex., 15. viii. 1966, Native collr ; Vientiane Prov., Phou-kow-kuei, 9 exs., 15-17. iv. 1965, J. L. Gressitt ; Vientiane Prov., Gi Sion Vill., de Tha Ngone, 1 ex., 10-24. x. 1965, Native collr ; Sayaboury Prov., Sayaboury, 6 exs., 15-16. iv. 1966, J. L. Gressitt, 1 ex., 13. iv. 1966, Native collr ; Borikhane Prov., Pakkading, 4 exs., 21-23. iv. 1965, 2 exs., 13. vii. 1965, 1 ex., 15. ix. 1965, J. L. Gressitt, 1 ex., 15-31. viii. 1965, Native collr ; Attopeu Prov., Houei Khong, 1 ex., 16. v. 1965, Native collr ; Phon Tiou, 1 ex., 1-15. iv. 1965, J. L. Gressitt (BISHOP) ; Umgeb. Vientiane, 3 exs., iii-vi. 1963 ; Umgeb. Vankay, 5 exs., 1963 ; Umgeb. Paklay, 2 exs., 1963 ; Umgeb. Pakse, 1 ex., 1963 (MUNCHEN). VIETNAM : Fyan, 900-1,200 m, 12 exs., 11. vii.-9. viii. 1961, N. R. Spencer ; Blao (Balao), 500 m, 13 exs., 14-21. x. 1960, C. M. Yoshimoto ; Dalat, 1,500 m, 2 exs., 29. iv.-4. v. 1960, L. W. Quate & C. M. Yoshimoto, 1 ex., 26-27. ix. 1960, C. M. Yoshimoto ; Dalat, 6 km S., 1,400-1,500 m, 7 exs., 9. vi.-7. vii. 1961, N. R. Spencer ; Chute de Dourg, 37 km SE of Dalat, 1 ex., 25. iv. 1960, R. E. Leech ; 22 km S. of Nha Trang, 2 exs., 20-26. xi. 1960, C. M. Yoshimoto ; 17 km S. of Dilinh, 1,300 m, 1 ex., 6-12. x. 1960, C. M. Yoshimoto ; 9 km S. of Dilinh (Djiring), 1 ex., 24. iv. 1960, R. E. Leech ; Ap Hung-Lam, 21 km NW of Dilinh, 1,100 m, 6 exs., 29. ix.-3. x. 1960, C. M. Yoshimoto ; Dai Lanh, N. of Nha Trang, 1 ex., 30. xi.-5. xii. 1960, C. M. Yoshimoto ; Kontum, 570 m, 1 ex., 13-14. vi. 1960, R. E. Leech ; M'Drak, E. of Ban Me Thuot, 4-600 m, 2 exs., 8-19. xii. 1960, C. M. Yoshimoto (BISHOP).

Dercetina chiengmaica n. sp. Fig. 72a

Generally yellowish brown ; in male elytron bluish black ; in female elytron entirely yellowish brown, and in some specimen elytron with basal and subapical markings bluish black.

Head with vertex smooth, shining, sparsely impressed by minute punctures, interocular space much wider than transverse diameter of single oculus, and interocular transverse impression distinct, slightly depressed at middle, frontal tubercle transverse, subquadrate, slightly separated, distinctly raised, surface smooth, impunctate. Antenna slender, nearly $\frac{3}{4}$ as long as body length ; first segment robust, club-shaped, second shrotest, nearly half as long as first, third $1\frac{1}{2}$ time as long as second, fourth $1\frac{3}{4}$ time as long as third, fifth slightly shorter than fourth, sixth slightly shorter than fifth, sixth to tenth subequal to each other in length and shape, eleventh slightly longer than tenth and its apex pointed. Pronotum transverse, $2\frac{3}{4}$ times as broad as long, anterior margin slightly rounded posteriorly, lateral margin feebly rounded, widest almost at middle and slightly narrowed anteriorly and posteriorly, basal margin distinctly rounded posteriorly, dorsal surface convex side to side, smooth,

shining, sparsely impressed by fine punctures, anterior corner thickened, distinctly produced laterally, basal corner pointed, and each with a setigerous pore. Scutellum subtriangular, convex, smooth, shining, impunctate. Elytron with lateral margin rounded, surface strongly and rather closely punctate and their interstices smooth, shining.

Length : 6.0—7.8 mm.

Holotype (Type No. 2707, Kyushu Univ.) : THAILAND : Chiangmai Prov., Doi Suthep, 1,000 m, 18. vii. 1965, Y. Miyatake. Paratypes : THAILAND : Chiangmai Prov., Doi Suthep, 1,000 m, 1 ex., 10. vi. 1965, 1 ex., 18. vi. 1965, K. Morimoto ; Chiangmai Prov., Mae Sa Water Fall, 1 ex., 16. vi. 1965, K. Morimoto ; Chiangmai Prov., Chiang Dao, 1 ex., 15. vi. 1965, Y. Miyatake ; Chiangmai Prov., Fang, 1 ex., 14. vi. 1965, Y. Miyatake ; Chiangmai Prov., Fang, 1 ex., 14. vi. 1965, K. Morimoto (KU); Kanchanaburi, 1 ex., 21. v. 1962, 3 exs., 31. v. 1962 (BANGKHEN, KIMOTO).

This new species closely resembles *Dercetina punctipennis* Kimoto, from Bhutan, but differs in having the lateral margin of pronotum strongly rounded.

***Dercetina flavocincta* (Hope)** Fig. 69c

Galleruca flavocincta Hope, 1831, in Gray, Zool. Misc. : 29 (Nepal ; BM).

Anthipha flavofasciata Baly, 1879, Cist. Ent. 2 : 456 (Assam ; BM).-Maulik, 1936, Fauna India, Galeruc. : 355 (= *flavocincta*).

Antipha unifasciata Allard, 1889, C. R. Soc. Ent. Belg., 33 : 107 (Cambodge ; PARIS, BRUX - ELLES). New synonym.

Arthrotus chinensis Weise, 1889, Horae Soc. Ent. Ross., 23 : 626, note (nec *Dercetes chinensis* Baly, 1879) (China ; ZMB).-Ogloblin, 1936, Fauna USSR, 26, 1 : 330, 331, 438 (Gansu). New **synonym**.

Antipha variipennis Jacoby, 1890, Entomologist, 1890 : 214, fig. (China ; BM).-Ogloblin, 1936, Fauna USSR, 26, 1 : 331 (= *chinensis* Weise).

Dercetes femoralis Weise, 1922, Tijdschr. Ent., 65 : 97 (Tonkin ; STOCKHOLM). New **synonym**.

Monolepta flavocincta : Weise, 1924, Col. Cat. Junk, 78 : 168 (Nepal).

Dercetis flavocincta : Maulik, 1936, Fauna India, Galeruc. : 355 (India, Nepal).

Dercetis taiwana Chûjô, 1938, Arb. Morph. Taxon. Ent. Berlin, 5(2) : 140 (with var. *melania* ; Formosa ; TARI). New **synonym**.

Dercetina variipennis : Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B:705, fig. (China).

Dercetina flavocincta : Kimoto & Takizawa, 1972, Kontyû, Tokyo, 40(4) : 222 (Nepal).

Distribution : India, Nepal, Thailand, Cambodia, Laos, Vietnam, China, Taiwan.

Material examined. THAILAND : Trang Prov., Khaophappa, Khaochong, 200-400 m, 1 ex., 30-31. vii. 1963, 1 ex., 1. i. 1964, 1 ex., 11. i. 1964, 2 exs., 13. i. 1964, G. A. Samuelson (BISHOP) ; Kanchanaburi, 2 exs., 31. v. 1962 ; Chiangmai, 1 ex., 3. xii. 1962 (BANGKHEN). LAOS : Vientiane Prov., Ban Van Eue, 1 ex., 12. iv. 1965, 1 ex., 16. iv. 1965, J. L. Gressitt, 2 exs., 1-15. v. 1965, J. A. Rondon, 2 exs., 15. viii. 1965, 1 ex., 5. xi. 1965, 2 exs., 15. iii. 1966, 1 ex., 15. xii. 1966, 1 ex., 30. iv. 1967, Native collr ; Vientiane Prov., Phou-kow-kuei, 1 ex., 15. iv. 1965, J. L. Gressitt ; Sedone Prov., Paksong, 1 ex., 8. v. 1965, P. D. Ashlock ; Sayaboury Prov., Sayaboury, 1 ex., 16. iv. 1965, J. L. Gressitt ; Borikhane Prov., Pakkading, 1 ex., 31. vii. 1965, Native collr ; Attopeu, Houei Kong, 1 ex., 31. v. 1965, Native collr ; Muong Sing, NW of Luang Prabang, 650 m, 1 ex., 6-10. vi. 1960, S. Quate & L. Quate ; Nan Theuong, 18 km NW of Xieng Khouang, 1,035 m, 1 ex., 10-17. viii. 1960, N. R. Leech (BISHOP). VIETNAM : Fyan, 1,200 m, 1 ex., 11. vii.-9. viii. 1961, N. R. Spencer ; Dalat, 1,500 m, 1 ex., 29. iv.-4. v. 1960, C. M. Yoshimoto ; Blao (Balao), 500 m, 1 ex., 14-21. x. 1960, C. M. Yoshimoto ; M' Drak, E. of Ban Me Thuot, 4-600 m, 1 ex., 8-19. xii. 1960, C. M. Yoshimoto (BISHOP).



Fig. 73. a, *Dercetina posticata* (Baly); b, *Doryida mouhoti* Baly; c, *Doryidomorpha souyrisi* Laboissière (Yunnan; type).

***Dercetina laevicollis* (Jacoby), new combination**

Anthipha laevicollis Jac., 1892, Ann. Mus. Civ. Genova, 32 : 974 (Burma; GENOVA).

Dercetes metallica Weise, 1922, Tijdschr. Ent., 65 : 96 (Tonkin; STOCKHOLM). New **synonym**.

Dercetis laevicollis : Maulik, 1936, Fauna India, Galeruc. : 360 (Burma).

Distribution : Burma, Thailand, Vietnam.

Material examined. THAILAND : Chiangmai Prov., Doi Suthep, 1,300 m, 2 exs., 8. vi. 1965, P. D. Ashlock, 50 km West of Tak, 900 m, 1 ex., 7-8. iv. 1966, J. Sedlacek (BISHOP) ; Chiangmai Prov., Doi Suthep, 2 exs., 8. vi. 1965, S. Asahina & K. Morimoto ; Chiangmai Prov., Doi Pui, 1,300 m, 2 exs., 8. vi. 1965, S. Asahina & K. Morimoto (KU).

***Dercetina permagna* n. sp. Fig. 72b**

Entirely reddish brown.

Head with vertex longitudinally depressed at middle, finely granulate, closely impressed by distinct punctures, interocular space much wider than transverse diameter of single oculus, and interocular transverse impression indistinct, frontal tubercle transverse, subquadrate, distinctly separated by frons, feebly raised, surface impressed by distinct punctures. Antenna slender, nearly $\frac{2}{3}$ as long as body length; first segment long, robust, club-shaped, second short, nearly $\frac{1}{3}$ as long as first, third $2\frac{1}{2}$ times as long as second, fourth $1\frac{1}{2}$ times as long as third, fourth to tenth subequal to each other in length and shape, eleventh subequal to tenth in length but its apex pointed. Pronotum transverse, twice as broad as long, anterior margin distinctly rounded posteriorly, lateral margin distinctly rounded, widest almost at $\frac{1}{3}$ from basal margin, strongly narrowed anteriorly and less strongly so posteriorly, basal margin distinctly rounded posteriorly, anterior corner slightly thickened and slightly produced laterally, posterior corner pointed, each with a setigerous pore ; dorsal surface convex side to side, rather closely impressed by distinct punctures and their interstices somewhat wrinkled. Scutellum subtriangular, finely granulate, sparsely impressed by fine punctures. Elytron

with lateral margin distinctly rounded, surface with a distinct transverse furrow subbasally, strongly and rather closely punctate and their interstices smooth, shining.

Length: 10.0 mm.

Holotype (MUNCHEN) : LAOS: Umgeb. Pakse, 1964. Paratopotype: 1 ex., same data as the holotype (KIMOTO).

This new species somewhat resembles *Dercetina bretinghami* (Baly), but differs in being the body length longer and having elytron with a transverse subbasal furrow much deeper.

***Dercetina posticata* (Baly), new combination** Fig. 73a

Antipha posticata Baly, 1879, Cist. Ent., 2 : 455 (Assam ; BM).—Jacoby, 1889, Ann. Mus. Civ.

Genova, 27 : 224 (as *postica* ; typographical error).

Dercetis posticata : Maulik, 1936, Fauna India, Galeruc. : 354 (India, Burma).

Distribution : India, Burma, Thailand, Laos.

Material examined. THAILAND: Chiangmai Prov., Mae Sa Water Fall, 3 exs., 16. vi. 1965, K. Morimoto (KU) ; "Siam", 14 exs., 1938 (BANGKHEN). LAOS : Vientiane Prov., Vientiane, 1 ex., iii. 1966, J. Sedlacek ; Sayaboury Prov., Sayaboury, 1 ex., 30. iv. 1965, 1 ex., 14. xii. 1965, Native collr ; Khammouane Prov., Phon Tiou, 1 ex., 30. iv. 1965, Native collr (BISHOP) ; Umgeb. Vanky, 8 exs., 1963 ; Umgeb. Pakse, 6 exs., 1963 ; Umgeb. Paklay, 5 exs., 1963 ; Umgeb. Vientiane, 2 exs., iii-vi. 1963 (MUNCHEN).

***Dercetina trifasciata* (Laboissière), new combination** Fig. 72c

Arthrotus trifasciatus Lab., 1932, Ann. Ass. Nat. Levallois-Perret, 20 : 135 (Tonkin ; HAMBURG).

Distribution : Thailand, Laos, Vietnam.

Material examined. THAILAND: Khao Chong, nr. Trung, 1 ex., 26. iv. 1967, K. Morimoto ; Nakornrajasima, 1 ex., 25. x. 1970, S. Nakao (KU). LAOS : Vientiane Prov., Vientiane, 1 ex., 21. iv. 1965, J. A. Rondon ; Vientiane Prov., Ban Van Eue, 1 ex., 15-31. v. 1965, J. A. Rondon, 1 ex., 15. viii. 1965, 1 ex., 15. xii. 1965, 1 ex., 15. ii. 1966, Native collr ; Sayaboury Prov., Sayaboury, 1 ex., 16. iv. 1965, J. L. Gressitt, 1 ex., 12. xii. 1965, 1 ex., 14. xii. 1965, Native collr ; Borikhane Prov., Paksane, 1 ex., 23. xii. 1965, Native collr (BISHOP). VIETNAM : Fyan, 900-1,200 m, 7 exs., 11. vii.-9. viii. 1961, N. R. Spencer ; Karyu Danar, 200 m, 1 ex., 13-28. ii. 1961, N. R. Spencer ; 20 km S. Dalat, 1,300 m, 1 ex., 12. ix. 1960, J. L. Gressitt ; Ap Hung-Lam, 21 km NW of Dilinh, 1,100 m, 1 ex., 29. ix.-5. x. 1960, C. M. Yoshimoto ; Blao (Balao), 500 m, 6 exs., 14-21. x. 1960, C. M. Yoshimoto (BISHOP).

Genus *Doryida* Baly

Doryida Baly, 1865, Ent. Monthly Mag., 2 : 97 (type : *Doryida mouhoti* Baly ; Siam, Laos).

—Chapuis, 1875, Gen. Col., 11 : 237, 239.—Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B : 710.

This genus is closely resembles *Gallerucida* (= *Stethidea*) but separable in having the middle and the posterior tibiae without any spine apically.

KEY TO SPECIES OF *Doryida*

- 1 Ventral surfaces entirely reddish brown ; legs reddish brown; dorsal surfaces and head reddish brown, and with or without blackish markings, in typical specimen pronotum with one median and elytron with six discal markings (2 : 2 : 2), in most pale colored specimen entirely reddish

brown and in most dark colored specimens entirely pitchy black ; length 9.7-11.6 mm...*mouhoti*
 Ventral surfaces black ; legs black with ventral surfaces of anterior femur and tarsus
 brownish ; head and dorsal surfaces generally pitchy brown ; length 6.3 mm*tarsalis*

***Doryida mouhoti* Baly Fig. 73b**

Doryida mouhoti Baly, 1865, Ent. Monthly Mag., 2 : 98 (Laos, Siam ; BM).—Jacoby, 1892, Ann. Mus. Civ. Genova, 32 : 990 (Burma).—Laboissière, 1931, Ann. Soc. Ent. France, 100 : 142 (Tonkin ; Hoa-Binh).—Maulik, 1936, Fauna India, Galeruc. : 606 (Siam, India, Burma).—Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B : 711 (Tonkin ; Hoa-Binh).—Chûjô, 1964, Nature and Life in SE Asia, Kyoto, 3 : 290 (Thailand).

Doryida nigripennis Baly, 1890, Ent. Monthly Mag., ser. 2, 1 : 12 (Siam, Laos ; BM). New synonym.

Distribution : India, Burma, Thailand, Laos, Vietnam.

Material examined. LAOS : Vientiane Prov., Ban Van Eue, 1 ex., 31. vii. 1965, 2 exs., 15. vi. 1966, Native collr ; Sedone Prov., Pakse, 2 exs., 30. viii. 1965, 1 ex., 15. viii. 1967, Native collr ; Sayaboury Prov., Sayaboury, 1 ex., 15. iv. 1965, J. L. Gressitt (BISHOP) ; Umgeb. Vientiane, 1 ex., iii-vi. 1963, Umgeb. Vanky, 1 ex., 1963 (MUNCHEN).

***Doryida tarsalis* Baly**

Doryida tarsalis Baly, 1890, Ent. Monthly Mag., ser. 2, 1 : 12 (? Siam ; BM).

Distribution ; ? Thailand.

It is possible that this species is only a color variation of *Doryida mouhoti* Baly.

Genus *Doryidomorpha* Laboissière

Doryidomorpha Lab., 1931, Ann. Soc. Ent. France, 100 : 144 (type : *Doryidomorpha souyrisi* Labois-

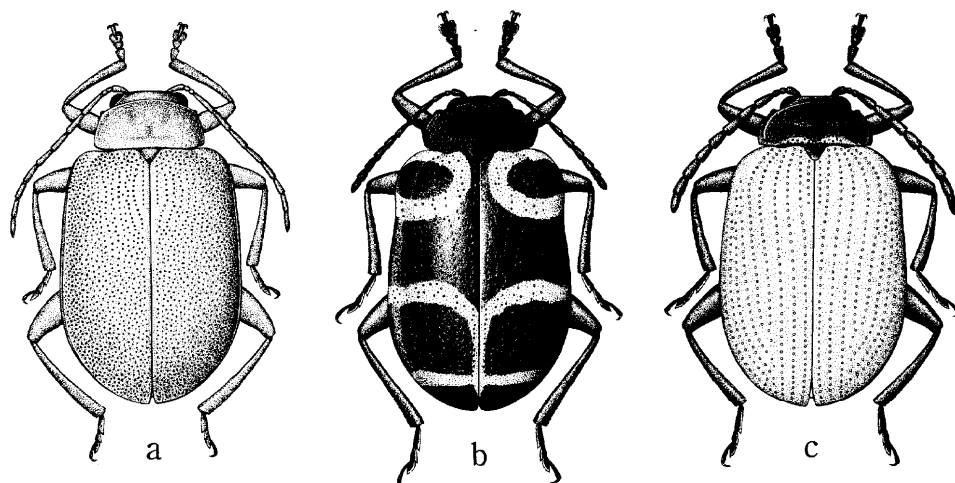


Fig. 74. a, *Gallerucida apicipennis* (Duvivier) ; b-c, *G. ornatipennis* (Duvivier).

sière ; Yunnan ; Fig. 73c).—Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B : 711.

KEY TO SPECIES OF *Dorydomorpha*

Yellowish brown, antenna blackish with three or four basal segments brownish, legs with tibiae and tarsi blackish ; in some specimen antenna and legs entirely brownish ; length 5.0-6.0 mm *pilifrons*
 Yellowish brown, with frons, antenna and anterior angle of pronotum, ventral surface of metathorax and legs black ; length 9.5-10.5 mm *frontalis*

Dorydomorpha frontalis Laboissière

Dorydomorpha frontalis Lab., 1931, Ann. Soc. Ent. France, 100 : 149 (Tonkin ; HAMBURG).

Distribution : Vietnam.

No additional material was examined beside the type series.

Dorydomorpha pilifrons Laboissière

Dorydomorpha pilifrons Lab., 1931, Ann. Soc. Ent. France, 100 : 148 (Tonkin ; HAMBURG).

Distribution : Vietnam.

No additional material was examined beside the type series. It is possible that this species is only a color variation of *frontalis* Laboissière.

Genus *Laphris* Baly

Laphris Baly, 1864, Trans. Ent. Soc. London, ser. 3, 2 : 231 (type : *Laphris emarginata* Baly ; China).—Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B : 712.

Laphris sexplagiata Laboissière Fig. 4c

Laphris sexplagiata Lab., 1934, Ann. Ass. Nat. Levallois-Perret, 21: 113 (Tonkin ; HAMBURG).

Gallerucida maxima Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B : 726 (Hainan Is. ; CAS). New synonym.

Distribution : Vietnam, Hainan.

Reddish brown, elytron with five large markings black : one subbasally, two submedianly and one subapically ; antenna pale brown with apical four segments black ; legs pale with apices of tarsi black ; sides of pronotum constricted behind middle ; length 11.0 mm.

No additional material was examined beside the type series.

Genus *Gallerucida* Motschulsky

Gallerucida Mots., 1860, Etud. Ent., 9 : 24 (type : *Gallerucida bifasciata* Motschulsky ; Japan).

—Maulik, 1936, Fauna India, Galeruc. : 545.—Chûjō, 1962, Phil. J. Sci., 91 (1-2) : 150.—Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B : 174.—Kimoto, 1965, J. Fac. Agr. Kyushu Univ., 13 (3) : 398.

Eustetha Baly, 1861, J. Ent., 1 : 296 (type : *Eustetha flaviventris* Baly ; N. China).

Melosphila Baly, 1861, *ibid.* : 297 (type *Melosphila nigromaculata* Baly ; N. China).

Hylaspes Baly, 1865, Trans. Ent. Soc. London, ser. 3, 2 : 436 (type : *Hylaspes longicornis* Baly ;

Himalaya).

Galerucida : Chapuis, 1875, Gen. Col., 11 : 224, 227.—Ogloblin, 1936, Fauna USSR, 26, 1 : 346, 441.

Stethidea Baly, 1885, Ent. Monthly Mag., ser. 2, 1 : 13 (type : *Dorydabalyi* Duvivier ; Malacca).

—Maulik, 1936, Fauna India, Galeruc. : 607. New **synonym**.

Coptomesa Weise, 1912, Arch. Naturg., ser. A, 7 (2) : 91.

KEY TO SPECIES OF *Galerucida*

- 1 Lateral margin of pronotum nearly straight, not distinctly narrowed anteriorly1
- Lateral margin of pronotum distinctly rounded, widest at 1/3 from anterior margin and distinctly narrowed anteriorly and posteriorly4
- 2(1) Dorsal surfaces not entirely violaceous blue3
- Generally violaceous blue, abdomen entirely ochraceous, antenna ochraceous with three basal segments pitchy black ; length 7.9-8.6 mm*laosensis*
- 3(2) Dorsal surfaces in part blackish4
- Dorsal surfaces entirely brownish ; antenna, tibiae and tarsi black5
- 4(3) Head, pronotum, metathorax, antenna and legs black ; elytron, scutellum, abdomen, together with basal margin of pronotum reddish brown ; length 10.0 mm*nigricollis*
- Elytron, meso- and metathorax, and legs pitchy black ; head, pronotum, abdomen and antenna, together with apex of elytron and anterior femur, reddish brown ; length 12.2—12.4 mm*duporti*
- 5(3) Elytron with two sizes of punctures, larger ones arranged in subregular rows and smaller ones confusedly impressed ; length 10.0 mm*moseri*
- Elytron confusedly impressed by distinct punctures ; length 10.0-12.0 mm*longicornis*
- 6(1) Elytron without distinct spots7
- Elytron dark reddish brown with humeral and apical areas yellowish, latter with two or three blackish spots ; dark reddish brown, antenna black ; length 7.0-8.5 mm*singularis*
- 7(6) Elytron not combination of reddish purple and golden green8
- Elytron iridescent reddish purple and golden green ; former dominant subbasally and postmedially, and latter dominant laterally and suturally ; pronotum with former dominant apically and latter basally ; legs purplish ; length 7.5-8.5 mm*gloriosa*
- 8(7) Elytron densely and finely punctured ; pronotum without distinct punctures, except for punctures impressed along a pair of transverse furrows9
- Elytron with two sizes of punctures, larger punctures arranged in subregular rows and smaller ones confused ; pronotum finely and sparsely punctured ; violaceous, coloration of elytron variable: 1) subbasal blackish or bluish marking free from basal margin and usually covering humerus ; one median and one subapical transverse yellowish band, both rather slender, 2) entirely violaceous blue, 3) entirely yellowish brown ; length 6.5-8.0 mm*ornatipennis*
- 9(8) Dorsal surfaces not entirely greenish or violaceous10
- Dorsal surfaces entirely violaceous or greenish blue ; abdomen entirely yellowish brown ; length 8.0 mm*tenuicornis*
- 10(9) Body length shorter, pronotum with a pair of transverse furrows deeper and longer, punctures on elytron stronger ; coloration variable : 1) entirely yellowish to reddish brown, 2) brownish, meso- and metathorax, and legs pitchy black, with tarsi and

anterior femur brownish ; 3) brownish, elytron black with apex brownish, 4) head, thorax, antenna and legs black, elytron and abdomen reddish brown, 5) brownish, with ventral surfaces, scutellum and a lateral stripe of elytron blackish ; length 7.4-8.3 mm *apicipennis*

Body length longer, pronotum with a pair of furrows shallower and shorter, elytron with punctures finer ; coloration variable : 1) entirely reddish brown, 2) brownish, legs blackish in various degrees, 3) brownish, metathorax and middle of each abdominal segment blackish, elytron with blackish markings (2 : 2 : 2 : 1) ; length 6.3-7.4 mm *balyi*

***Gallerucida apicipennis* (Duvivier) Fig. 74a**

Parastetha? apicipennis Duviv., 1885, Stett. Ent. Ztg., 46 : 395 (Bangkok).

Galemcida fulva Laboissike, 1934, Ann. Ass. Nat. Levallois-Perret, 21 : 129 (nec *Stethidea fulva* Laboissière, 1931, from Tonkin) (Tonkin ; BRUXELLES). New **synonym**.

Galemcida (Eustetha) apicipennis : Laboissiere, 1940, Bull. Mus. Hist. Nat. Belg., 16 (3) : 25 (Bangkok).

Gallerucida fulva : Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B : 724 (Tonkin : Hoa-Binh, Hainan).

Gallerucida apicipennis : Wilcox, 1971, Col. Cat. Suppl., 78 (1) : 201 (Thailand).

Distribution : Thailand, Laos, Vietnam, Hainan.

Material examined. THAILAND : Chiangmai Prov., Chiangmai, 1,100-1,500 m, 2 exs., 1966, J. Sedlacek (BISHOP) ; Chiangmai Prov., Doi Pui, 1,300 m, 1 ex., 17. vi. 1965, K. Morimoto (KU) ; Khon Kaen, 1 ex., 20. xii. 1979, 1 ex., 22. xii. 1979, 3 exs., 24. xii. 1980, S. Azuma (RU). LAOS : Vientiane Prov., Vientiane, 2 exs., 25. iii. 1966, J. Sedlacek ; Khammouane Prov., Phon Tiou, 1 ex., 17. v. 1965, Native collr ; K. Sedone, 1 ex., 13. x. 1965, Native collr ; Ile de Khong, 1 ex., 24. viii. 1965, J. A. Rondon (BISHOP) ; Umgeb. Paklay, 1 ex., 1963 (MUNCHEN). VIETNAM : Ban Me Thout, 500 m, 1 ex., 20-24. xii. 1960, C. M. Yoshimoto ; Fyan, 900-1,000 m, 1 ex., 11. vii.-9. viii. 1961, N. R. Spencer (BISHOP).

***Gallerucida balyi* (Duvivier), new combination Fig. 75b**

Doryida balyi Duviv., 1885, Stett. Ent. Ztg., 46 : 394 (Malacca).

Stethidea fulva Laboissière, 1931, Ann. Soc. Ent. France, 100 : 135 (Tonkin ; HAMBURG). New **synonym**.

Stethidea maculata Laboissiere, 1931, Ann. Soc. Ent. France, 100 : 133 (nec *Gallerucida maculata* Weise, 1912) (Tonkin ; HAMBURG). New **synonym**.

Stethidea ornata Laboissière, 1932, Ann. Ass. Nat. Levallois-Perret, 20 : 132 (new name for *Stethidea maculata* Laboissiere, nec Weise).

Stethidea balyi : 1936, Fauna India, Galeruc. : 608 (India, Burma, Andaman Is., Malacca).

Distribution : India, Burma, Andaman Is., Thailand, Laos, Vietnam, Malaya.

This species closely resembles *Doryida mouhoti* Baly but is separable in having the middle and the posterior tibiae each with a short but distinct spine apically.

Material examined. THAILAND : Chiangmai Prov., Fang, 500 m, 1 ex., 13. vi. 1965, P. D. Ashlock (BISHOP). LAOS : Khammouane Prov., Phon Tiou, 1 ex., 30. iv. 1965, Native collr (BISHOP) ; Umgeb. Vankay, 2 exs., 1963 ; Umgeb. Pakse, 1 ex., 1963 ; Umgeb. Vientiane, 2 exs., iii-vi. 1963 (MUNCHEN). VIETNAM : Fyan, 900-1,000 m, 1 ex., 11. vii.-9. viii. 1961, N. R. Spencer (BISHOP).

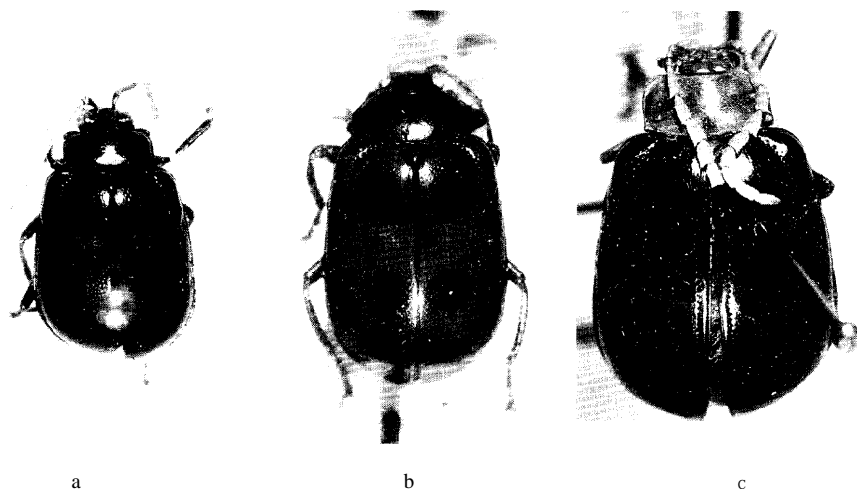


Fig. 75. a, *Gallerucida laosensis* n.sp.; b, *G. balyi* (Duvivier); c, *G. duporti* (Laboissière).

***Gallerucida duporti* (Laboissière), new combination** Fig. 75c

Hylaspes duporti Lab., 1931, Ann. Soc. Ent. France, 100 : 139 (Tonkin; HAMBURG).

Distributin : Vietnam.

Material examined. "Indo-China", 2 exs. (BASEL).

***Gallerucida gloriosa* (Baly)**

Eustetha gloriosa Baly, 1861, J. Ent., 1 : 296 (N. China; BM).—Fairmaire, 1887, Revue d'Ent., 6 : 334 (Pekin).

Eustetha seriata Fairmaire, 1878, Ann. Soc. Ent. France, 47 : 136 (C. China; PARIS).—Ogloblin, 1936, Fauna USSR, 26, 1 : 365 (= *gloriosa*).—Laboissière, 1940, Bull. Mus. Hist. Nat. Belg., 16 (3) : 25 (Pekin).

Galerucida gloriosa : Jacobson, 1911, Käfer Russl., 9 : pl. 59, fig. 10.—Ogloblin, 1936, Fauna USSR, 26, 1 : 365, 444 (China).

Gallemcida (Eustetha) gloriosa : Laboissière, 1934, Ann. Ass. Nat. Levallois-Perret, 21 : 128 (Tonkin).

Galerucida jacobsoni Ogloblin, 1936, Fauna USSR, 26, 1 : 363, 446 (Ussuri, Amur, Korea, Manchuria, Peking, Ganssu).—Laboissière, 1930, Bull. Mus. Hist. Nat. Belg., 16 (3) : 25 (= *seriata*).

Gallerucida gloriosa : Gressitt & Kimoto, 1963, Pac. Ins. Men., 1B : 724 (China).

Distribution : China, Korea, E. Siberia, Vietnam.

No additional material was examined.

***Gallerucida laosensis* n. sp.** Fig. 75a

Generally violaceous blue, antenna ochraceous with three basal segments pitchy black, abdomen entirely ochraceous, legs entirely black.

Head with vertex smooth, shining, sparsely impressed by distinct punctures especially on front,

interocular space distinctly wider than transverse diameter of single oculus, and interocular transverse impression distinct, frontal tubercle oblique, subquadrate, contiguous, distinctly raised, surface smooth, shining. Antenna slightly shorter than long, depressed, in preapical segments nearly $2\frac{2}{3}$ times as long as wide; first segment robust, club-shaped, second short, nearly $\frac{1}{5}$ as long as first, third as long as second in length, fourth nearly seven times as long as third, fifth slightly shorter than fourth, fifth to ninth subequal to each other in length, tenth slightly shorter than fourth, eleventh $1\frac{1}{4}$ times as long as tenth and its apex pointed. Pronotum transverse, nearly twice as broad as long, anterior margin distinctly rounded posteriorly, lateral margin almost straight, distinctly narrowed posteriorly, basal margin distinctly rounded posteriorly, anterior corner distinctly produced laterally and posterior corner distinctly angulate, dorsal surface convex, smooth, shining, sparsely impressed by fine punctures, and with a pair of oblique lateral furrows very deep. Scutellum subtriangular, smooth, shining, impunctate. Elytron with lateral margin rounded, slightly widened posteriorly, surface strongly and closely punctate, interstices of punctures smooth, shining.

Length : 7.9-8.6 mm.

Holotype (BISHOP) : LAOS : Sayaboury Prov., Sayaboury, 15. iv. 1965, J. L. Gressitt. Paratypes : LAOS : Vientiane Prov., Ban Van Eue, SE of Phou-kow-kuei, 2 exs., 13. iv. 1965, J. L. Gressitt, 1 ex., 1-15. v. 1965, J. A. Rondon (BISHOP, KIMOTO).

This new species resembles *Gallerucida abdominalis* Gressitt & Kimoto, from S. China, but differs in having antenna generally ochraceous and the legs entirely blackish.

Gallerucida longicornis (Baly)

Hylaspes Zongicornis Baly, 1865, Trans. Ent. Soc. London, ser. 3, 2 : 436 (Eastern Himalayas : Mungpu ; BM).-Maulik, 1936, Fauna India, Galeruc. : 602 (India, Burma).-Bryant, 1952, Ann. Mag. Nat. Hist., ser. 12, 5 : 602 (Nepal).-ChQj8, 1966, Mem. Fac. Educ. Kagawa Univ., II, 149 : 14 (Nepal).-Kimoto, 1970, Spec. Bull. Lep. Soc. Japan, 4 : 171 (Nepal).

Hylaspes assamensis Baly, 1879, Cist. Ent., 2 : 460 (Assam ; BM).-Duvivier, 1892, Ann. Soc. Ent. Belg., 36 : 442 (Kurseong, Sikkim).-Maulik, 1936, Fauna India, Galeruc. : 602 (= *Zongicornis*).

Hylaspes dohrni Duvivier, 1885, Stett. Ent. Ztg., 46 : 246 (Birmah) ; **1892, *ibid.*, 36 : 442** (Kurseong).

—Allard, 1891, Nouv. Arch. Mus. Paris, ser. 3, 3 : 231; 1904, Miss. Pavie Indo-Chine, 3 : 160 (Laos : Luang-Prabang à Theng).—Maulik, 1936, Fauna India, Galeruc. : 602 (= *longicornis*).

Gallerucida longicornis : Kimoto & Takizawa, 1972, Kontyû, Tokyo, 40(4) : 223 (Nepal).

Distribution : India, Nepal, Burma, Thailand, Laos.

A specimen taken from Laos is slightly different from the type, in having the legs reddish brown with apices of tibiae and tarsi blackish and the antenna brownish in some basal segments.

Material examined. THAILAND : Chiangmai Prov., Chiangdao, 450 m, 3 exs., 5-11. iv. 1958, T. C. Maa (BISHOP). LAOS : Umgeb. Vientiane, 1 ex., iii-vi. 1963 (MUNCHEN).

Gallerucida moseri (Weise)

Gallerucida moseri Ws., 1922, Tijdschr. Ent., 65 : 93 (Tonkin ; STOCKHOLM).

Gallerucida moseri : Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B : 727 (China).

Distribution : Vietnam, China.

No additional material was examined.

***Gallerucida nigricollis* (Laboissière), new combination**

Hylaspes nigricollis Lab., 1931, Ann. Soc. Ent. France, 100 : 140 (Tonkin ; HAMBURG).

Distribution : Vietnam.

No additional material was examined beside the type series.

***Gallerucida ornatipennis* (Duvivier) Figs. 74b,c**

Hylaspes ? ornatipennis Duv., 1885, Stett. Ent. Ztg., 46 : 397 (China).

Eustetha annulipennis Fairmaire, 1889, Ann. Soc. Ent. France, 58 : 79 (China).-Weise, 1922, Tijdschr. Ent., 65 : **93** (= *ornatipennis*).

Eustetha varians Allard, 1891, Nouv. Arch. Mus. Paris, ser. 3, 3: 233 ; 1904, Miss. Pavie Indo-Chine, 3 : 163, fig. (Cambodge ; PARIS). New **synonym**.

Galemcida ornatipennis : Laboissière, 1934, Ann. Ass. Nat. Levallois-Perret, 21 : 119 (China, Tonkin).-Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B : 728 (China).

Galerucida ornatipennis varr. *decolora*, *violacea* Laboissière, 1934, Ann. Ass. Nat. Levallois-Perret, 21 : 120 (China).

Distribution : Cambodia, Vietnam, China.

Material examined. VIETNAM : Annam, 1 ex., 1927 (BASEL).

***Gallerucida singularis* (Harold)**

Galerucida singularis Harold, 1880, Stett. Ent. Ztg., 41 : 145 (Darjeeling, India bor.).-Weise, 1912, Arch. Naturg., 78 : 90 (notes).

Galerucida indica : Allard, 1889, Ann. Soc. Ent. France, ser. 6, 9 : 310 (Saigon, Phnomh-Penh) ; 1891, Nouv. Arch. Mus. Paris, ser. 3, 3 : 231 ; 1904, Miss. Pavie Indo-Chine, 3 : 160 (no locality cited). —Laboissière, 1925, Encycl. Ent., ser. B, 1 : 53 (corrected as ***Galemcida tonkinensis*** Laboissière).

Galemcida haroldi Weise, 1912, Arch. Naturg., 78 : **90** (Tonkin). New **synonym**.

Galerucida gebieni Weise, 1922, Tijdschr. Ent., 65 : 92 (Fukien ; STOCKHOLM).-Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B : 733 (= *singularis*).

Galemcida tonkinensis Laboissière, 1934, Ann. Ass. Nat. Levallois-Perret, 21 : 120 (Tonkin ; PARIS). New **synonym**.

Gallerucida tonkinensis : Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B : 736 (Vietnam).

Gallerucida singularis : Maulik, 1936, Fauna India, Galeruc. : 551 (Mungpu, Assam, Burma, Tonkin).-Chûjô, 1962, Phil. J. Sci., 91(1-2) : 150 (Formosa).-Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B : 733 (China).

Distribution : India, Burma, Vietnam, China, Taiwan.

The convexity of the anterior process of metastemum of this species is weaker than the other species of this genus. No additional material was examined.

***Gallerucida tenuicornis* (Weise)**

Galemcida tenuicornis Weise, 1922, Tijdschr. Ent., 65 : 91 (Tonkin ; STOCKHOLM).

Distribution : Vietnam.

No additional material examined beside the type series.

The following species was recorded by Chûjô (1964), but I could not trace depository of the material treated for this record.

Anastena nigromaculata (Jacoby)

Astena ? nigromaculata Jac., 1896, Ann. Soc. Ent. Belg., 40 : 275 (Kanara).

Anastena nigromaculata : 1936, Fauna India, Galeruc... 297 (India).—Chûjô, 1964, Nature and Life in SE Asia, Kyoto, 3 : 284 (Thailand : Chiang Mai).

Distribution : India, Thailand.

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CORRECTION AND ADDITION FOR PARTS I AND III

Correction for Part I.

Donacia Fabricius, 1775

Prodonacia Chen, 1966.—Borowiec, 1984, *Bull. Ent. Pologne*, 53 : 437 (= *Donacia*).
Donaciomima Medvedev, 1973.—Borowiec, 1984, *ibid.*, 437 (= *Donacia*).

Donacia shishona (Chen, 1966)

Prodonacia shishona Chen, 1966.
Donacia shishona : Borowiec, 1984, *Bull. Ent. Pologne*, 53 : 443 (China : Yunnan ; N. Vietnam).
Donacia vietnamensis Kimoto & Gressitt, 1979, *Pac. Ins.-Borowiec*, 1984, *Bull. Ent. Pologne*, 53 : 443 (= **shishona**).
 Distribution : China, Vietnam.

Addition to Part III.

Scelolanka nigrofemorata Medvedev, p. 136 (Euyen-Quang, Tonkin, Montes Mauson, H. Fruhstorfer).
Scelolanka phyllanthii Medvedev, p. 135 (Vietnam).

Correction for Part III.

Page 50, fig. 13. a, *Basilepta chiangmaiensis*; b, *B. multimaculata*; c, *B. subcostata*.

Page 134, fig. 42, a, *Platycorynus pyrospilotus* (Baly).

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